

FIG. 1A

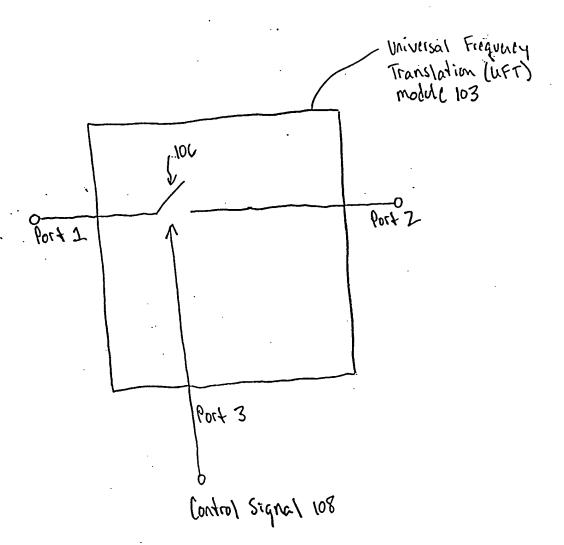


FIG. 1B

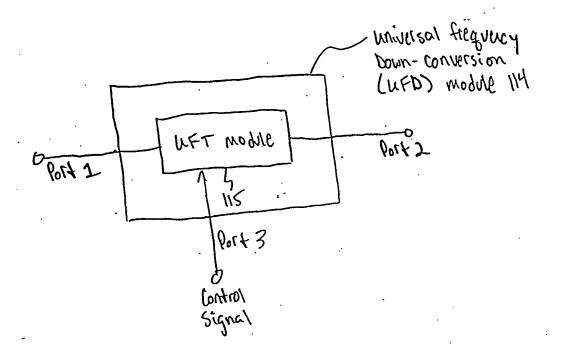


FIG. 1C

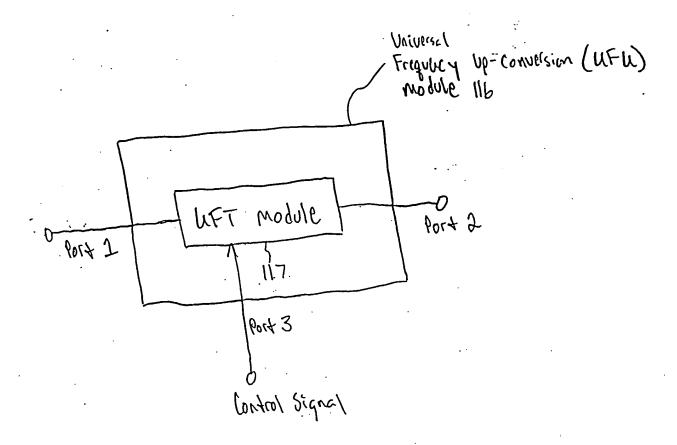


FIG. 10

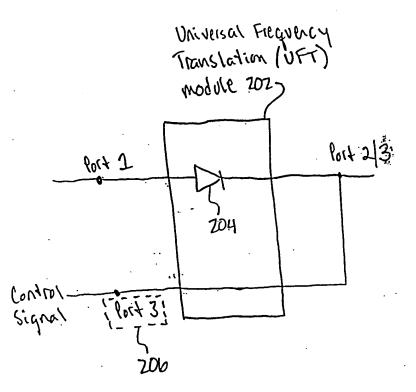
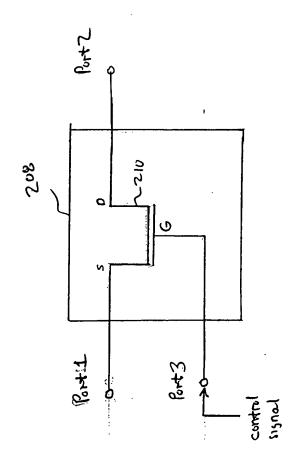


FIG. 2A



Fzc. 2B

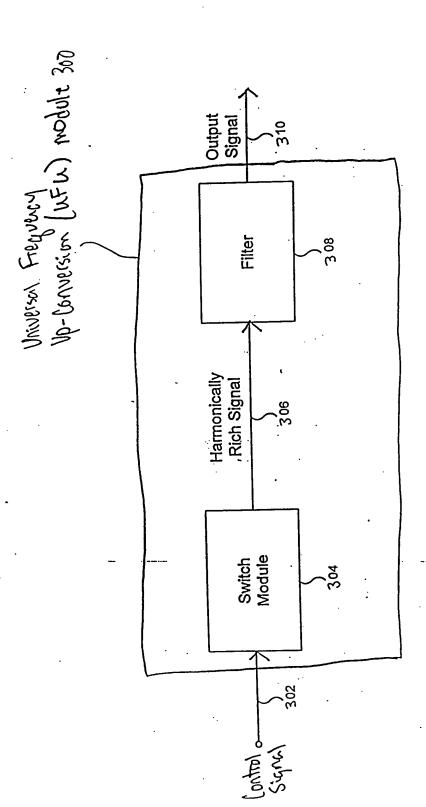


FIG. 3

FIG. 4

Suitan module3 04

Universal Frequenty
Up- conversion (WFW) mobile 4017

Universal Frequency
Up-conversion
(UKFU) module 590)

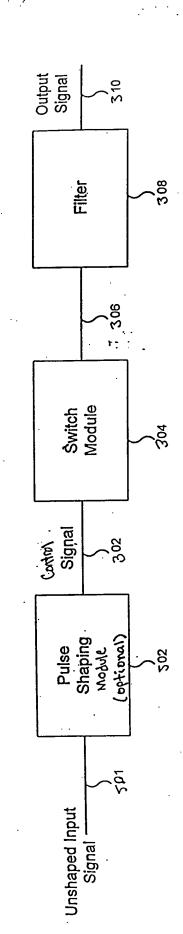
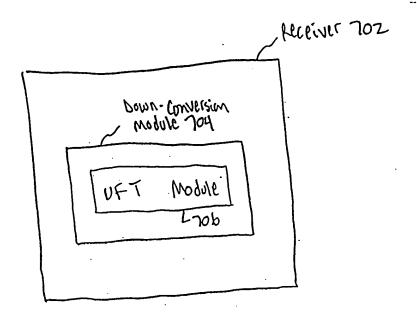


FIG.

HARMONICS OF SIGNALSSAIO AND 1/2 (SHOWN SIMULTANFOUSLY BUT NOT SUMMED)

FILTERED OUTPUT SIGNAL

FIG 6 Cont



FI6.7

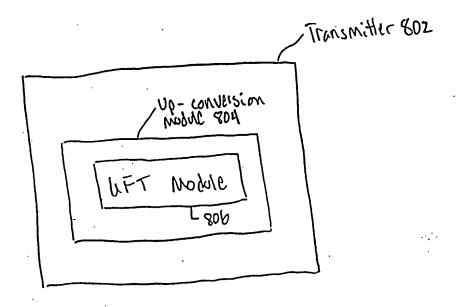
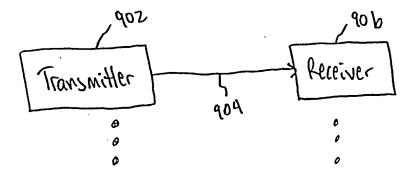


FIG. 8



FI6.9

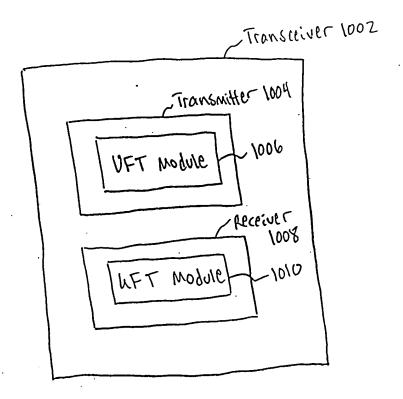


FIG. 10

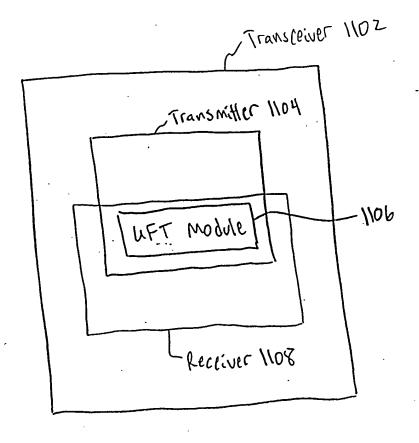


FIG. 11

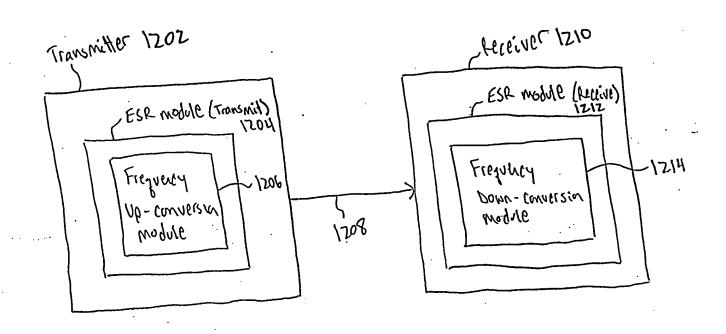


FIG. 12

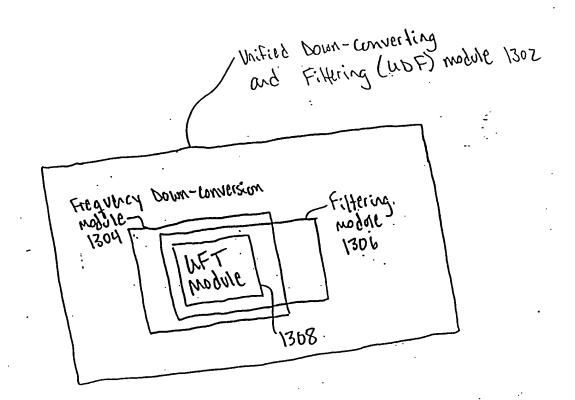


FIG. 13

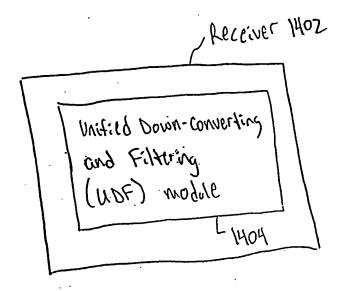
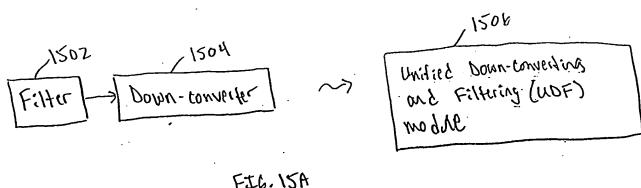
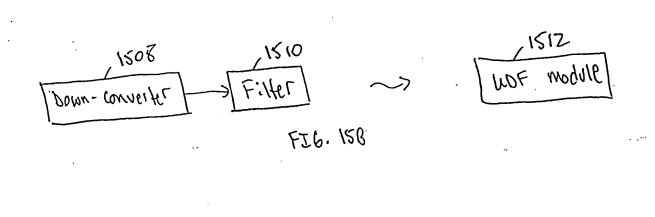


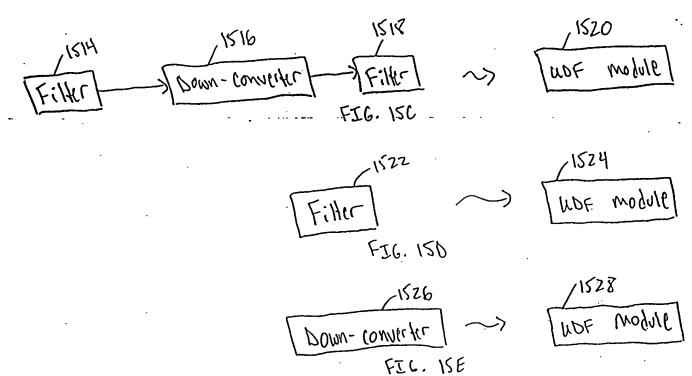
FIG. 14











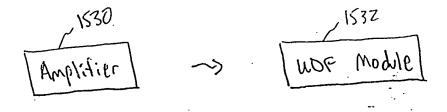


FIG. ISF

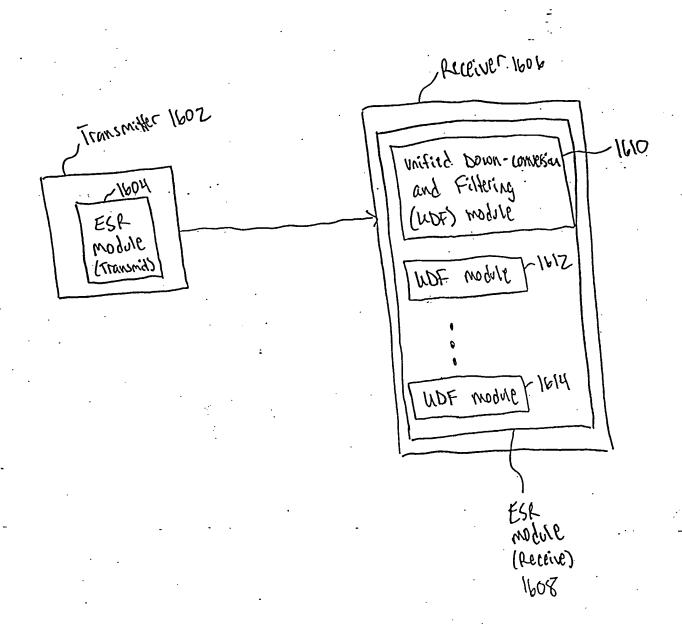


FIG. 16

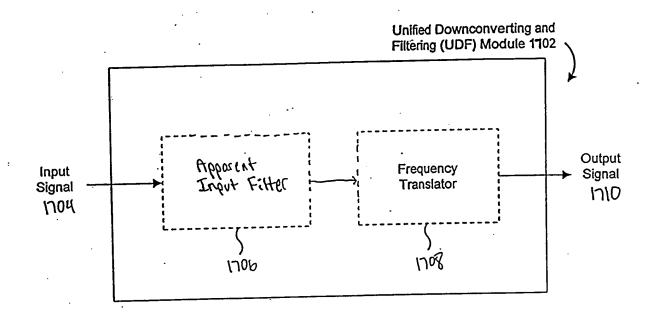


FIG. 17

Time Node	t-1 (rising	t-1 (rising edge of ϕ_1)		t-1 (rising edge of φ₂)		t (rising edge of φ ₁)		t∙ (rising edge of ¢₂)		t+1 - (rising edge of φ ₁)	
1902	VI _{t-1}	1804	VI _{t-1}	1608	۷۱ _t	<u>1816</u>	۷l	<u>1826</u>	VI _{t+1}	<u>1838</u>	
1904	<u></u>		VI _{t-1}	1810	VI _{t-1}	<u> 1818</u>	VI	<u>1828</u>	∨I _t	<u>1840</u>	
1966	VO _{t-1}	1806	VO _{t-1}	1812	۷0 _t	<u>1820</u>	VO	<u>1830</u>	VO ₁₊₁	184z	
1908	-		VO _{t-1}	1814	VO _{t-1}	<u>1822</u>	VO,	<u>1832</u>	VO _t	<u>1844</u>	
1910	-	1807	_		VO _{t-1}	1824	VO _{t-1}	<u>1834</u>	VO _t	<u>1846</u>	
1912	 		_	1815	-		VO _{t-1}	<u>1836</u>	VO _{t-1}	<u>1848</u>	
1918	-		_		-				VI _t - 0.1* 0.8*	<u>1850</u> VO _t - VO _{t-1}	

FIG. 18

W

F19. 20A

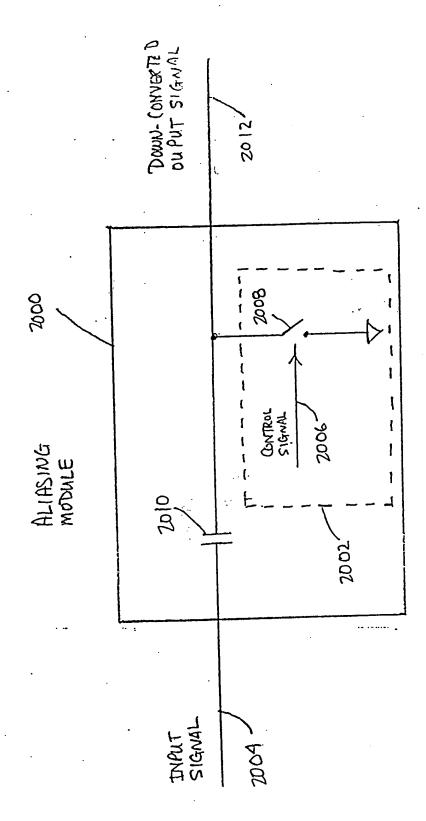


FIG. 20A-1

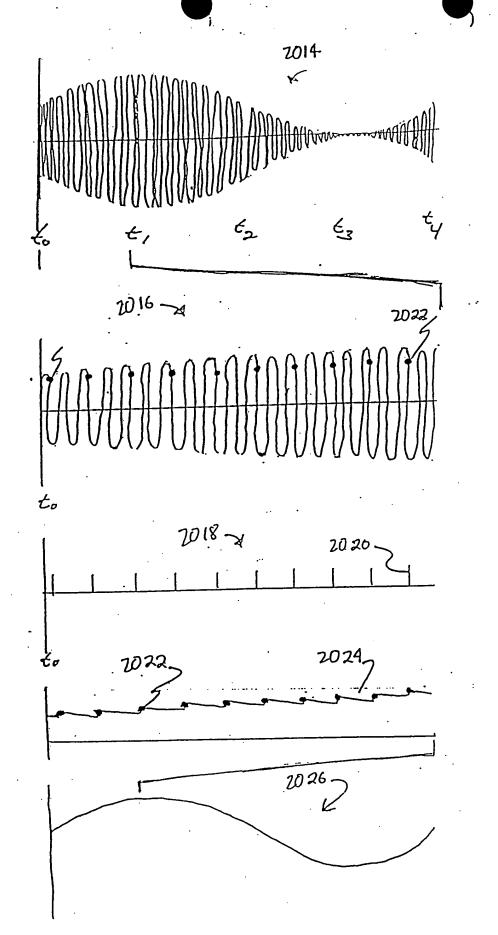


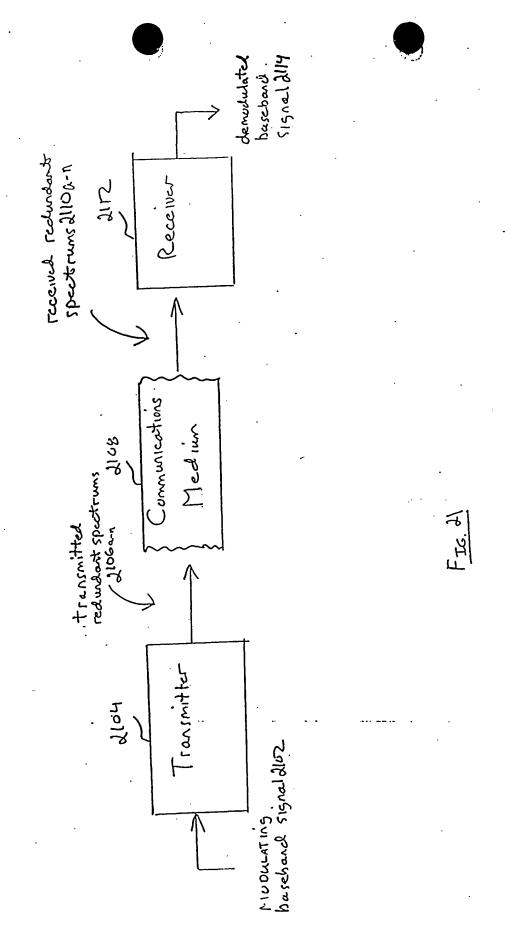
FIG. 20B

FIG. 20C

FIG. 200

FIG. 20E

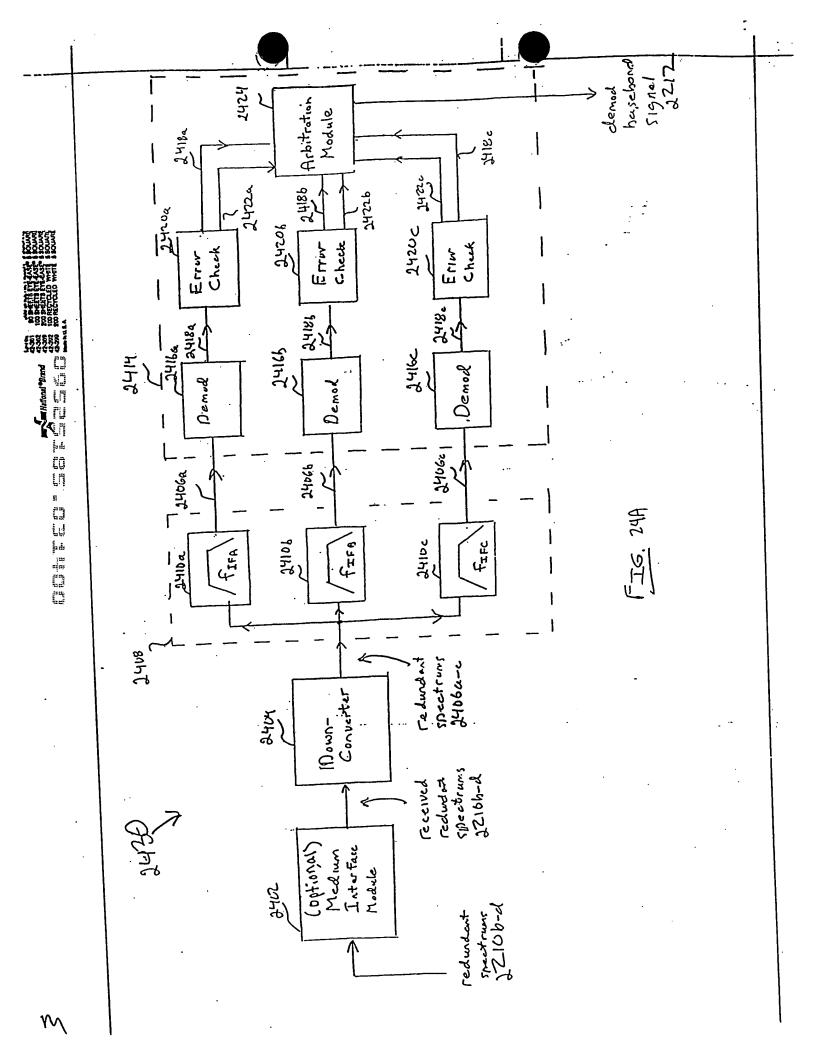
FIG. 20F

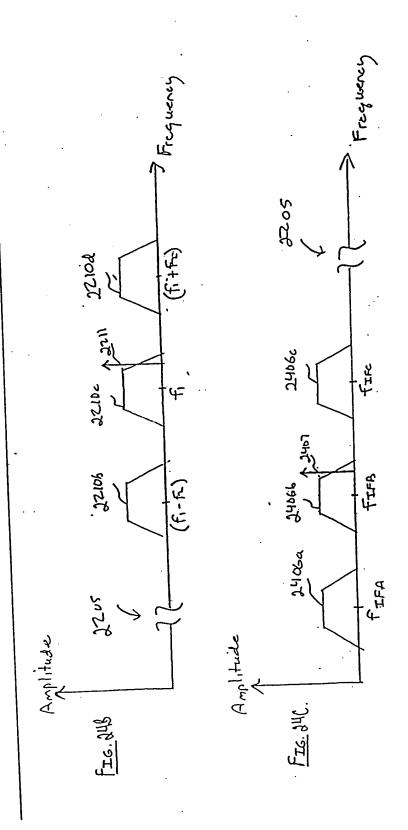


100 RECYCLED WHITE \$ SOUNE
200 RECYCLED WHITE \$ SOUNE

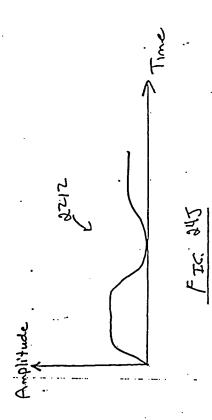
ķ

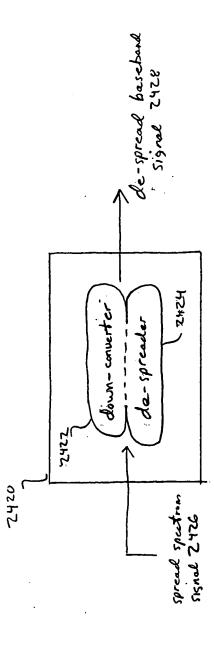
43-552 IORECTCLED WHITE S SOUNCE 42-559 200 RECTCLED WHITE S SOUNCE MARINE AND RECTCLED WHITE S SOUNCE





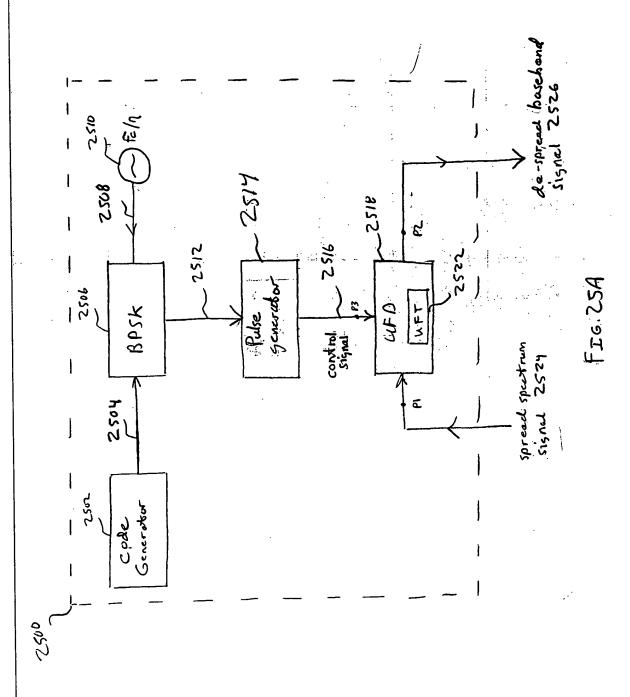
vΛ.



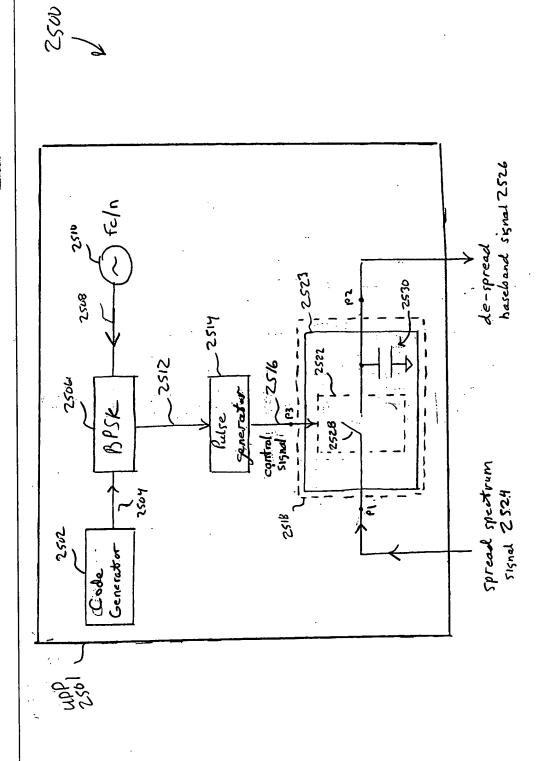


FE6.24K

i Kajar



. . . .



Fz6,25B

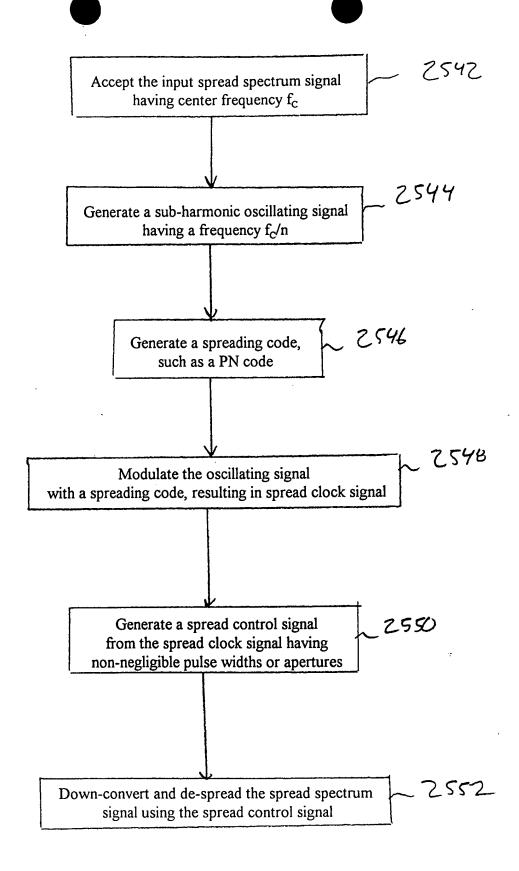


FIG. 25C

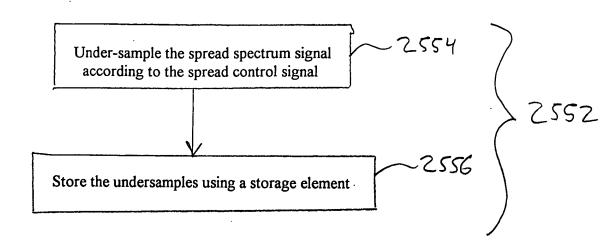
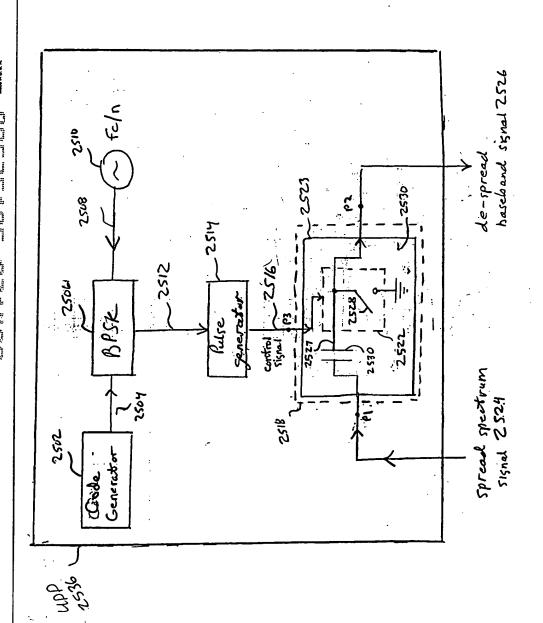


FIG. 250

FIG. 25E



F26.251

FIG. 256

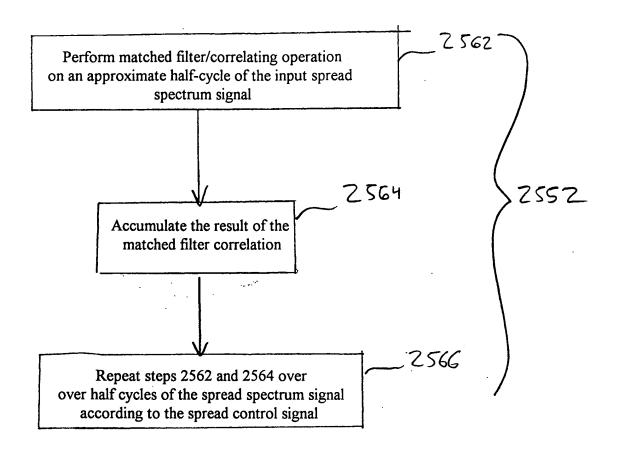


FIG 25 H

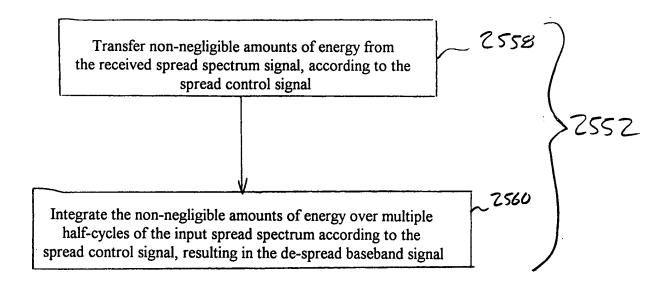


FIG. 25I

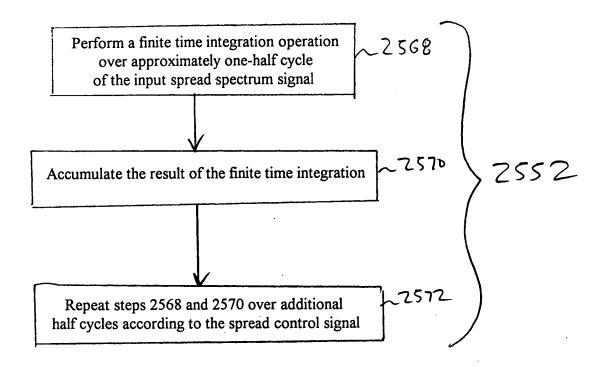


FIG. 25J

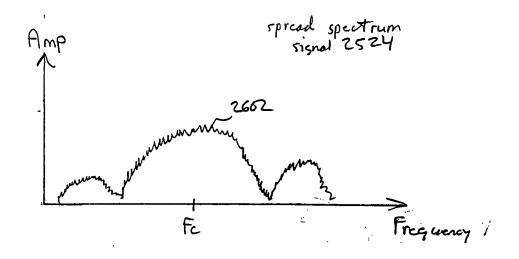
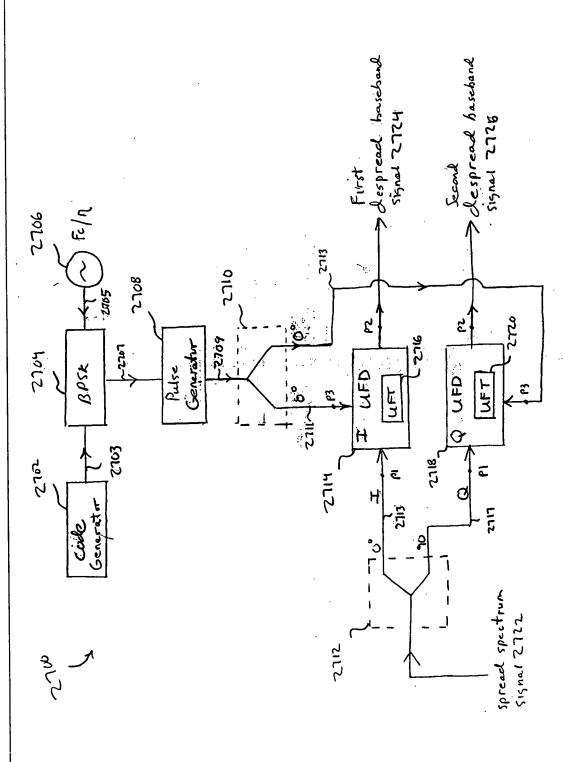
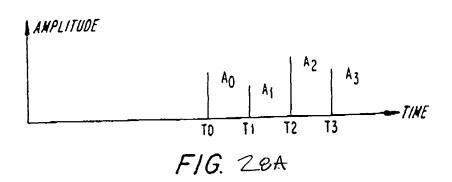
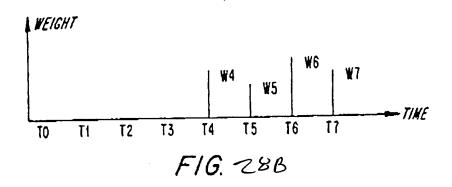


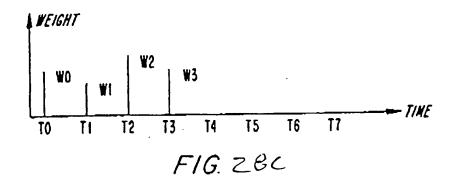
FIG. ZGA

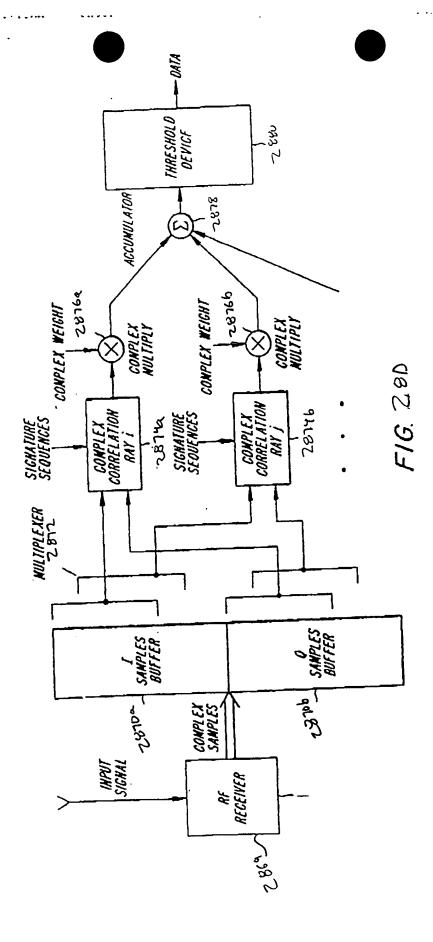


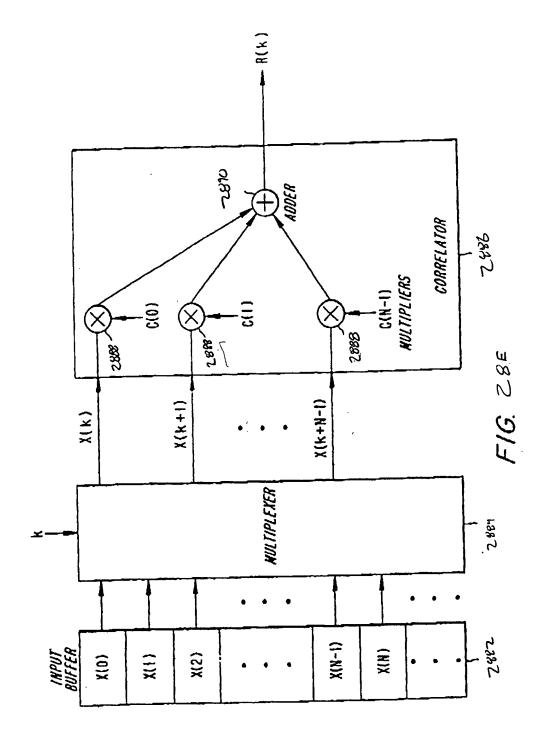
FIG

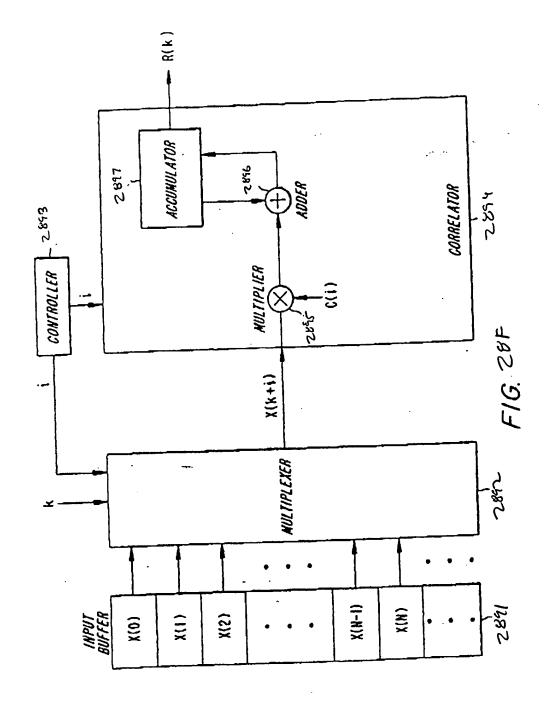


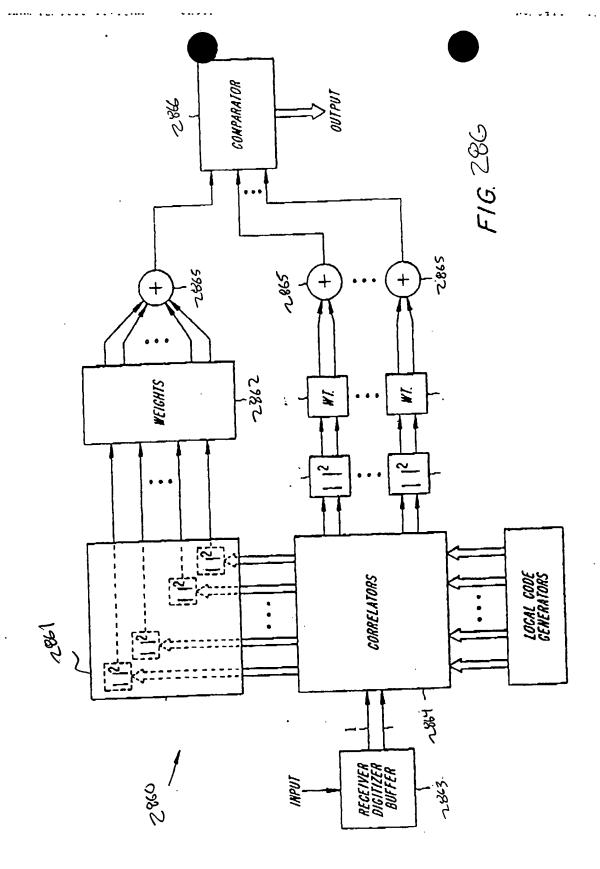


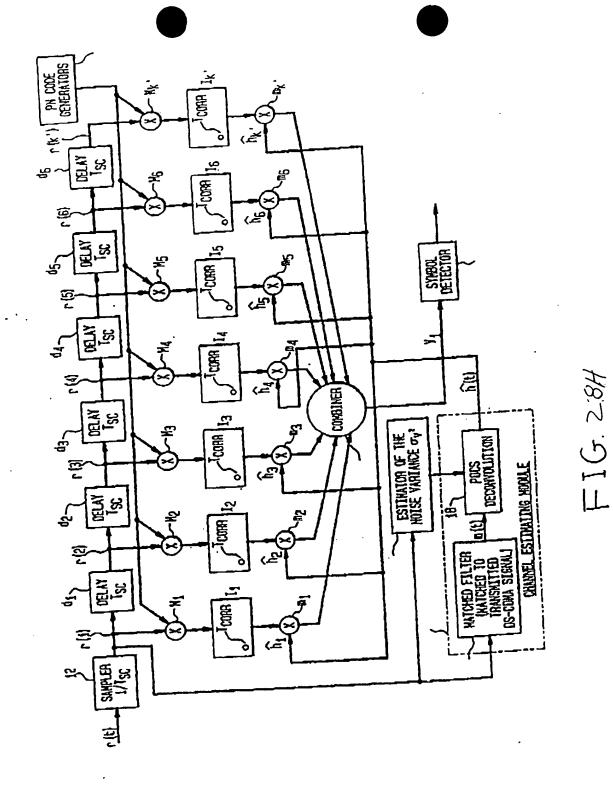


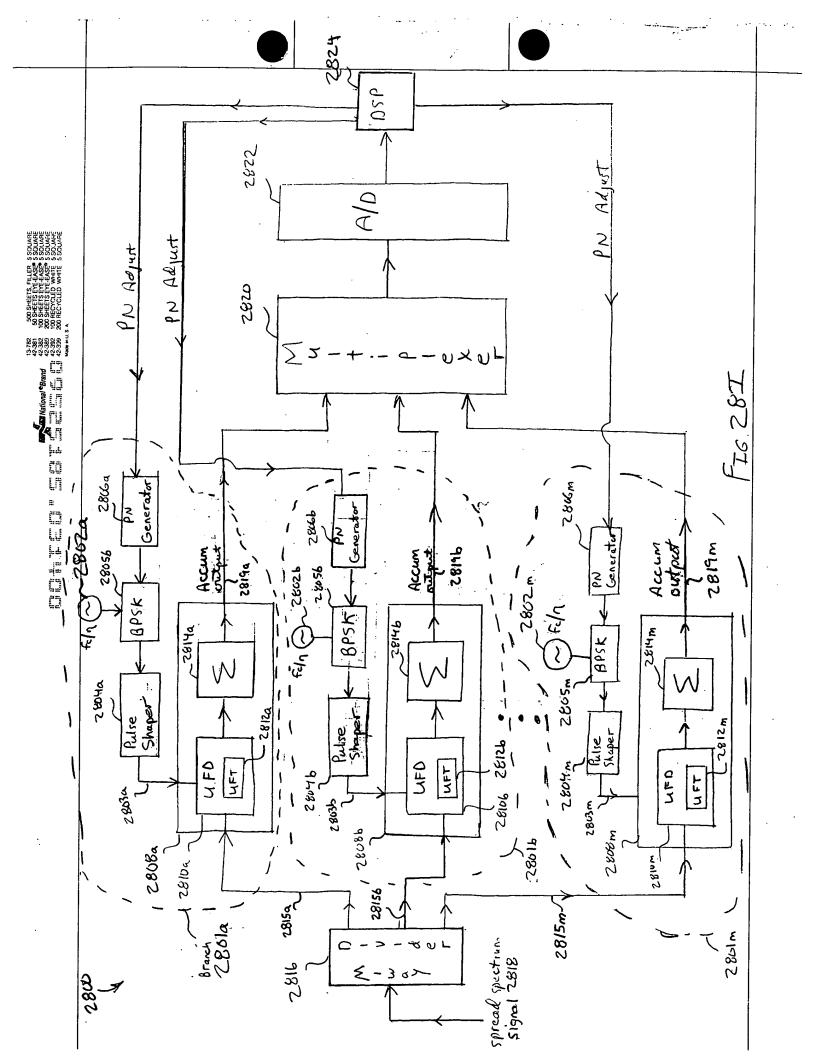












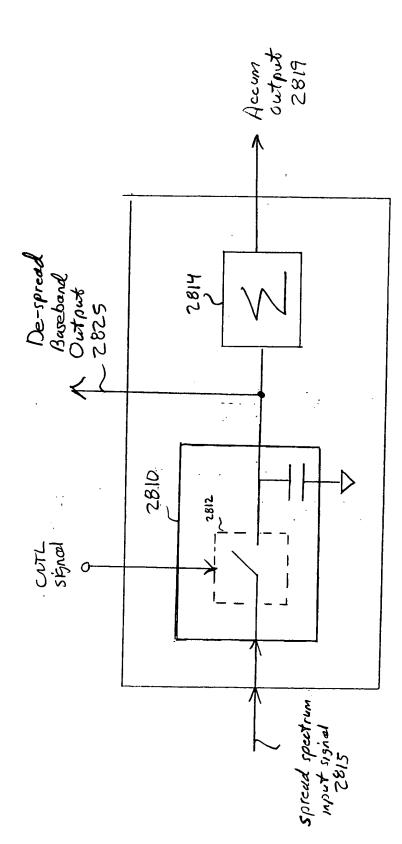
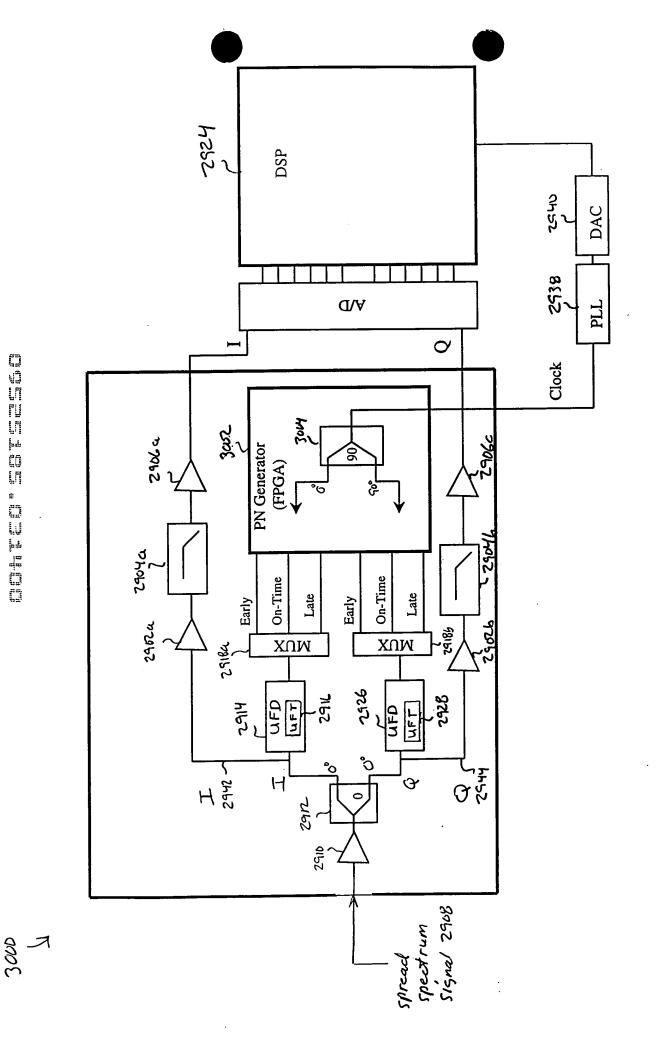


FIG. 28]

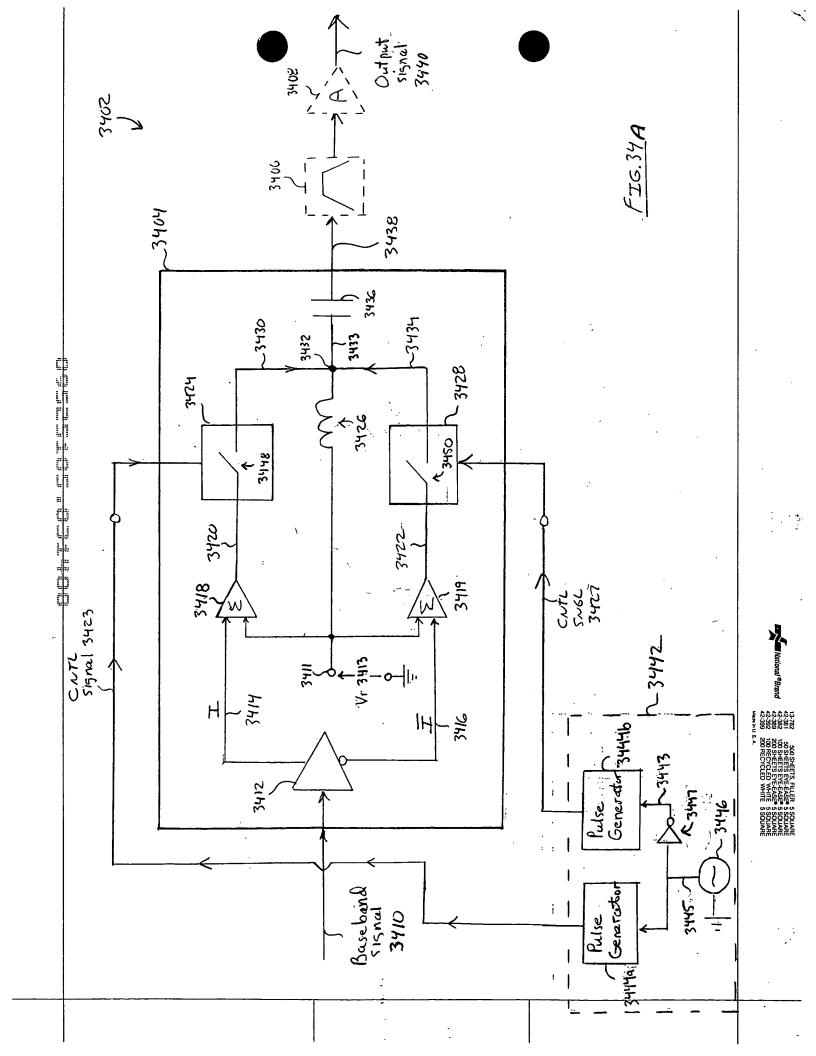
FZG. 29

2905

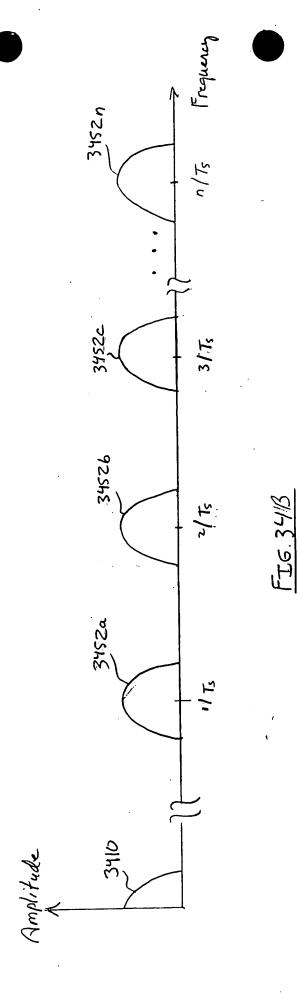


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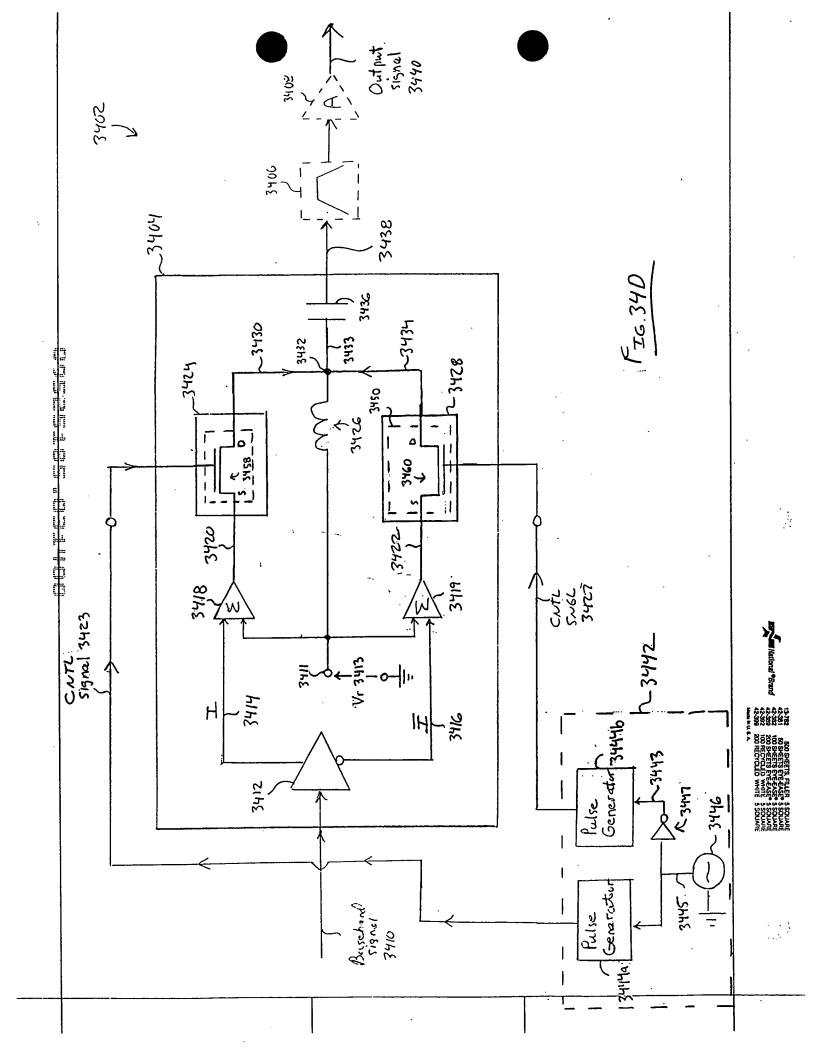


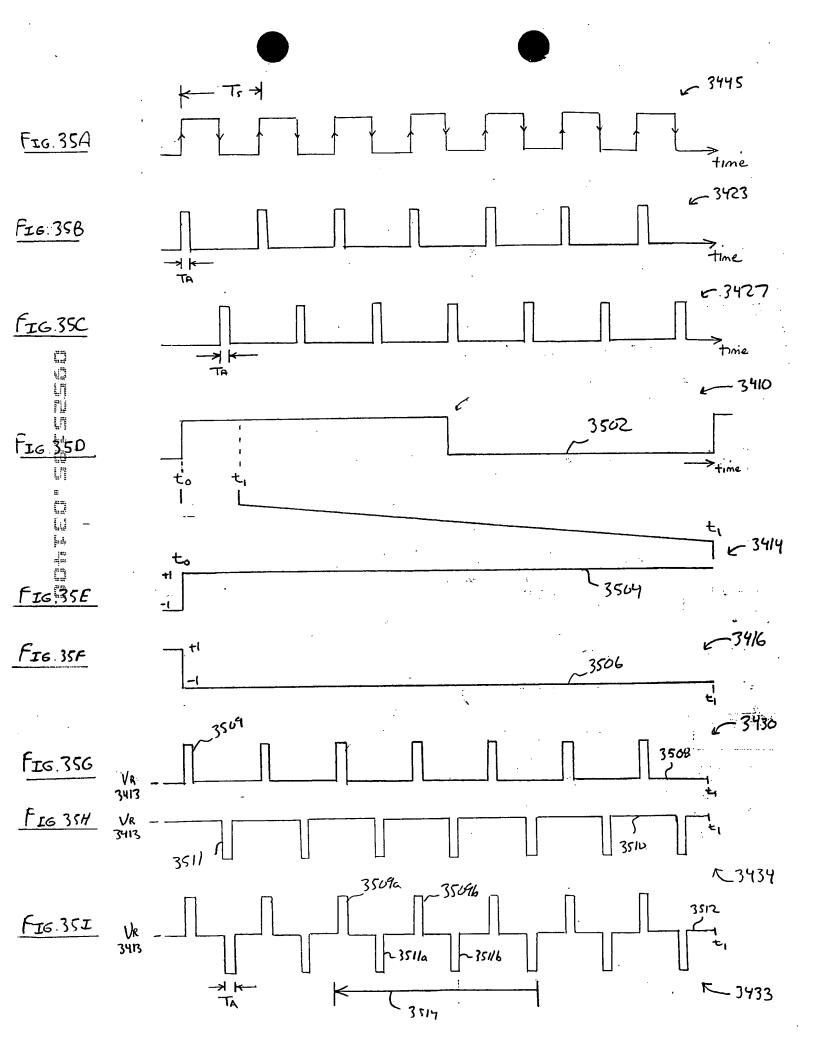
3430











Aperture = 500psFundamental Clock = 200Mhz (5th Subharmonic)

Square Wave Frequency = 200Mhz

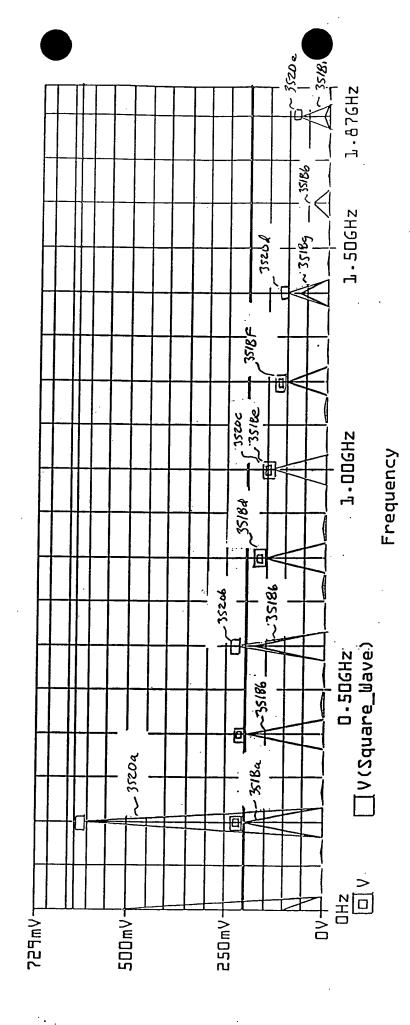
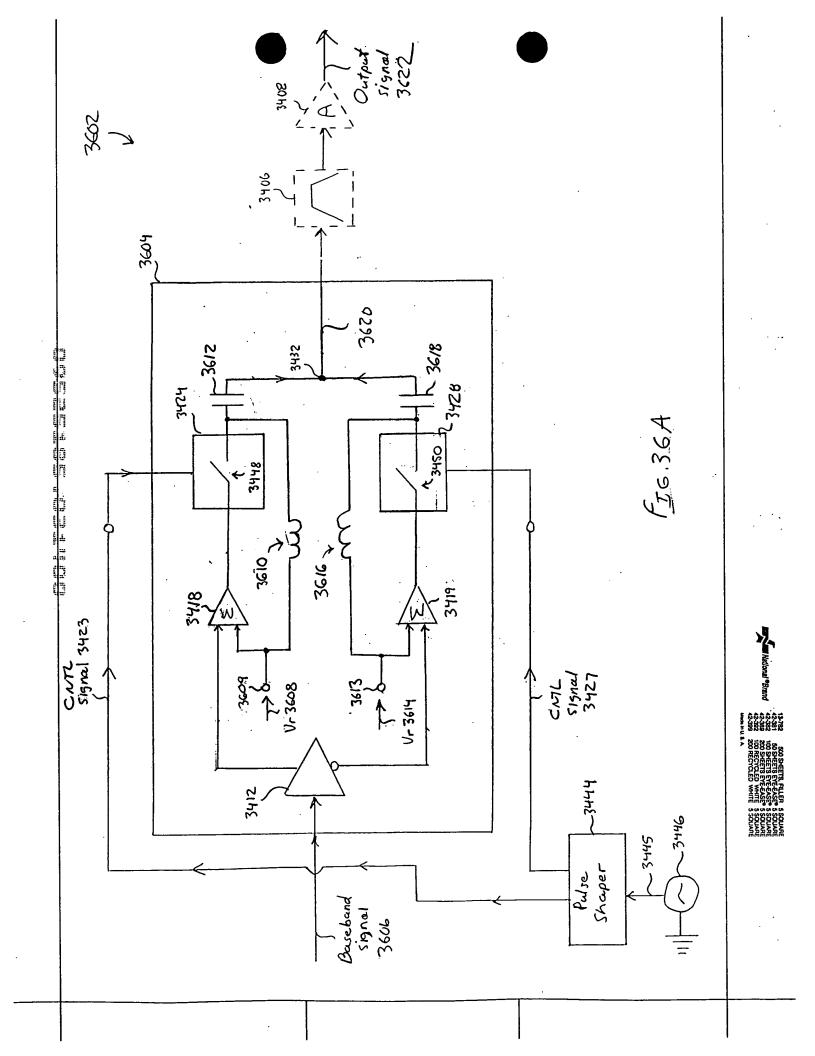
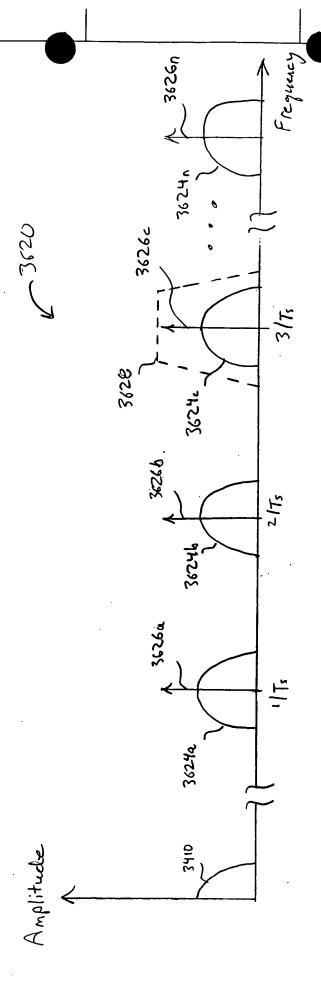
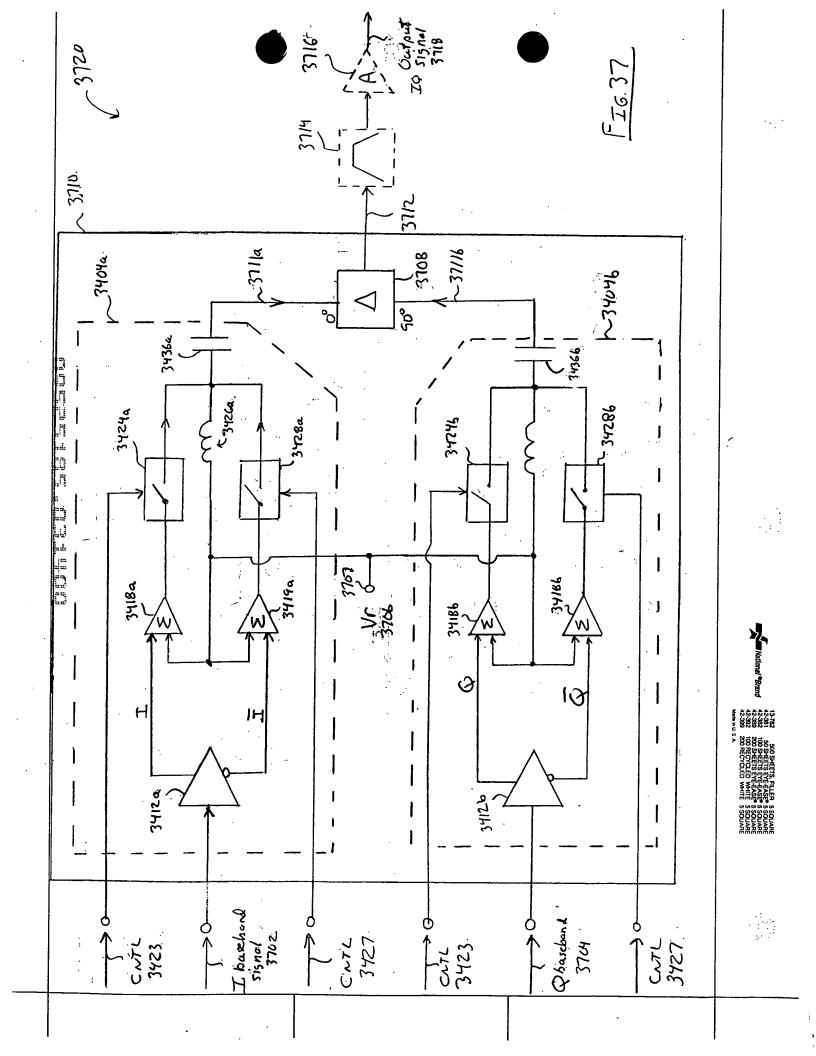


FIG.35J





FIE. 36B



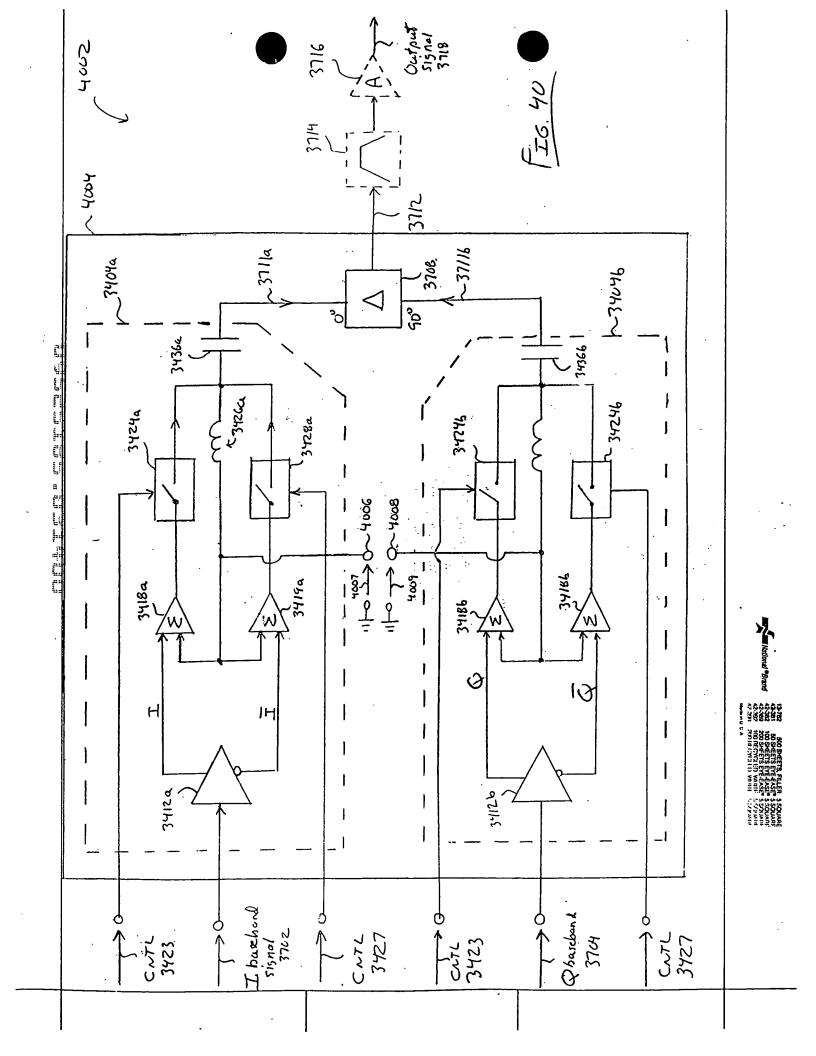


FIG. 42A

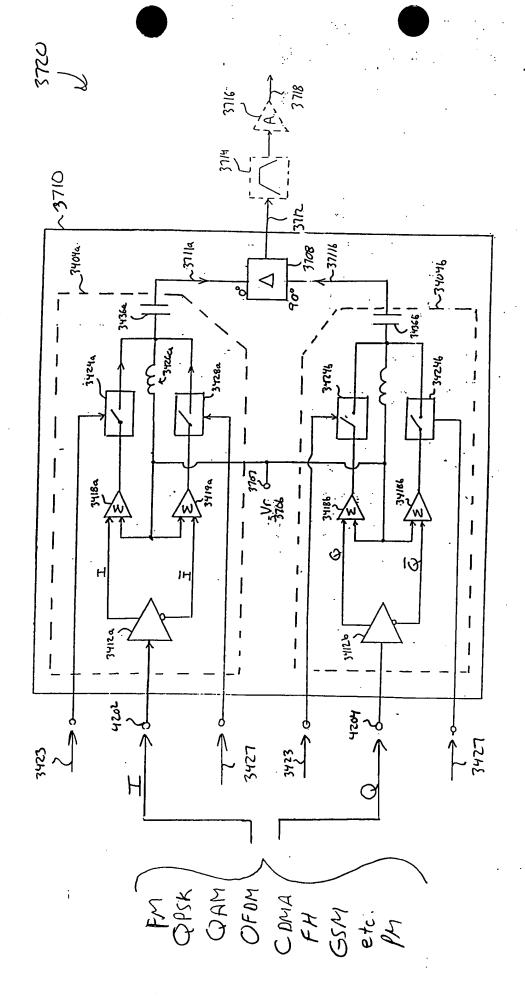


FIG. 42B

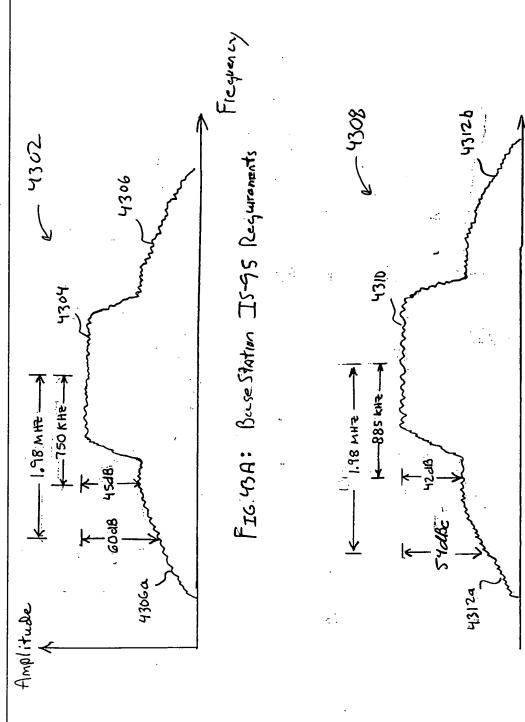
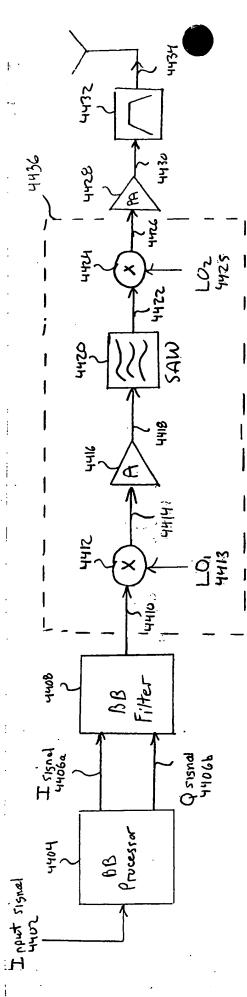


FIG 43B: Mobile IS-95 Requirements





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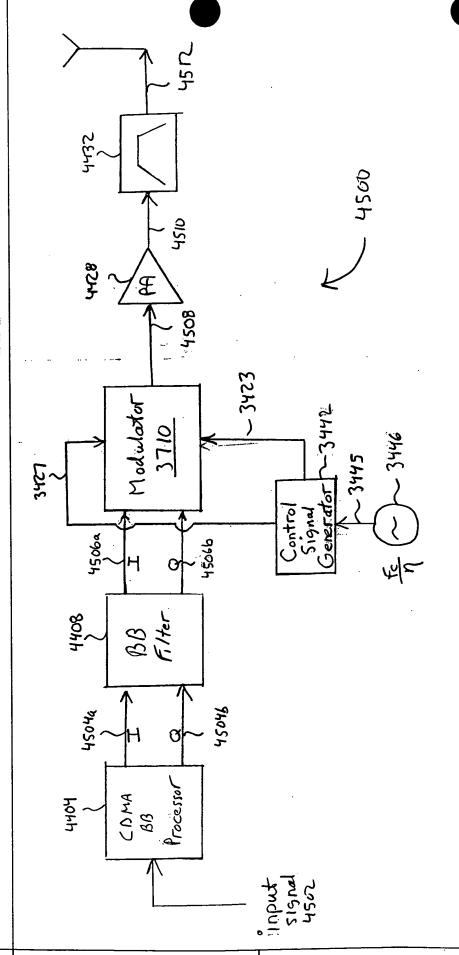
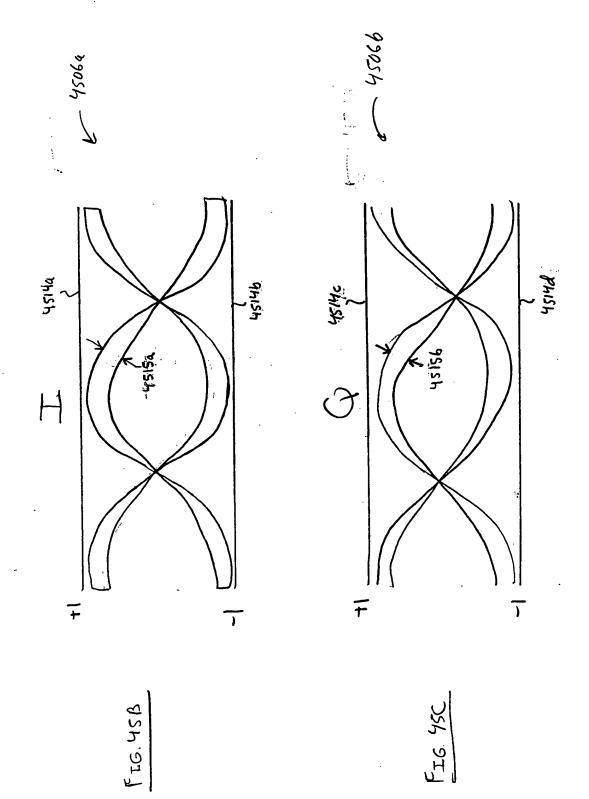


FIG. 454 ; CDMA Transmitte





National Brand 42:43

<u> </u>	(xe. 150	

42-391 - 30 SKETIS E 42-392 - 100 SKETIS E 42-392 - 100 SKETIS E 42-392 - 100 RECYCLE 42-393 - 200 RECYCLE 42-394 - 200 RECYCLE



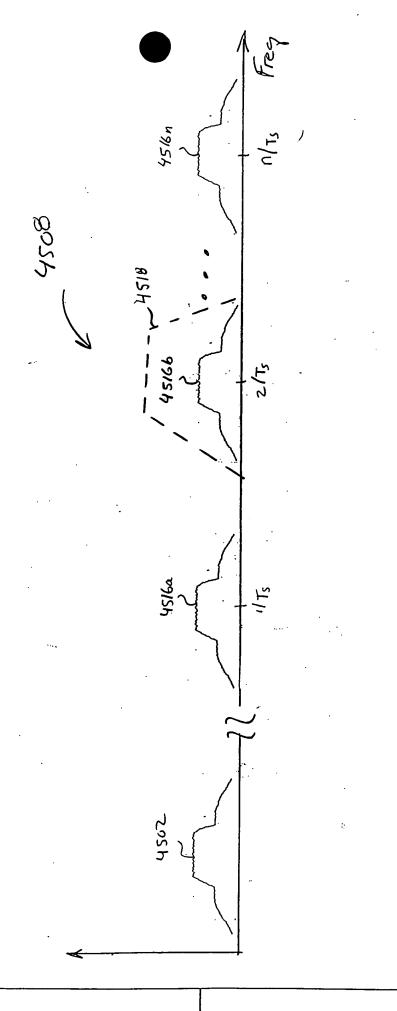


Fig. 45E

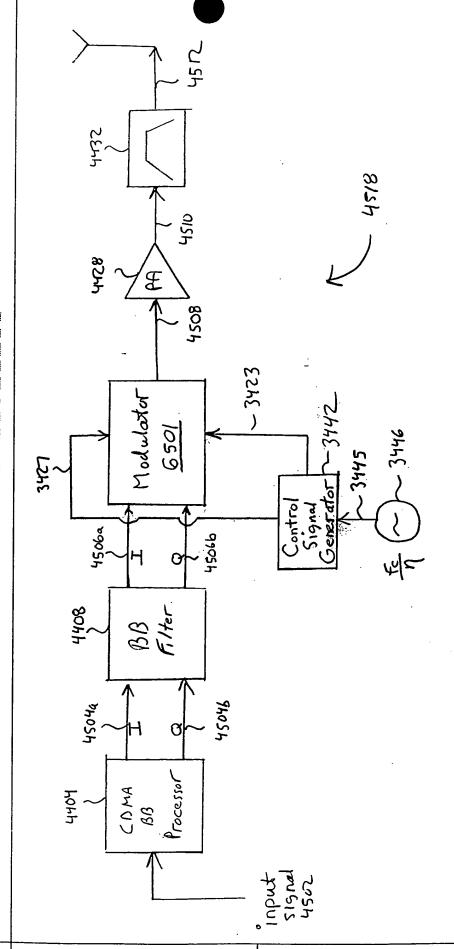
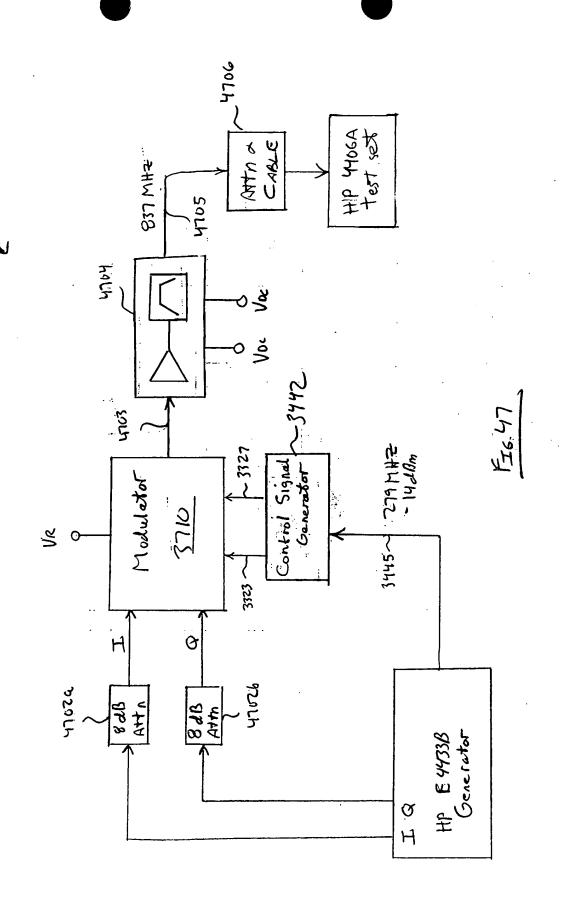


FIG: 45F CDMA Transmitter



FIG 463 COMA CMOS CHIP





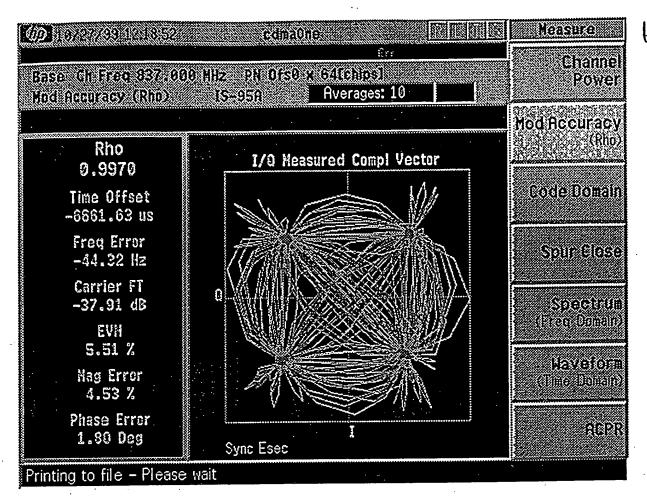


Base Station

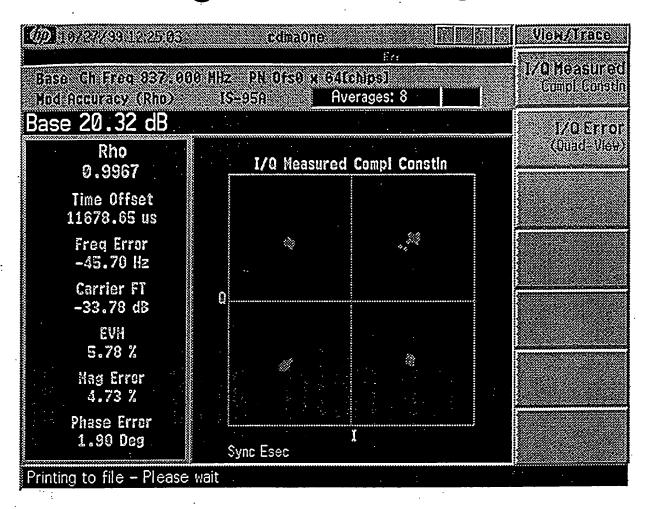
48027 RHO 0.9970 **EVM** 5.51% FIG. 48 PHASE ERROR 1.80° MAGNITUDE 4.53% **ERROR CARRIER** -37.91 dB **INSERTION** PA POWER OUT 28.06 dBm

	LOW	MIDDLE	HIGH
RHO	0.9892	0.9969	0.9892
EVM	10.39%	5.54%	10.39%
PHASE ERROR	4.47°	2.24°	4.08°
MAGNITUDE ERROR	6.84%	4.21%	8.27%
CARRIER INSERTION	-40.15 dB	-44.58 dB	-35.27 dB
PA POWER OUT	27.36 dBm	28.11 dBm	27.55 dBm

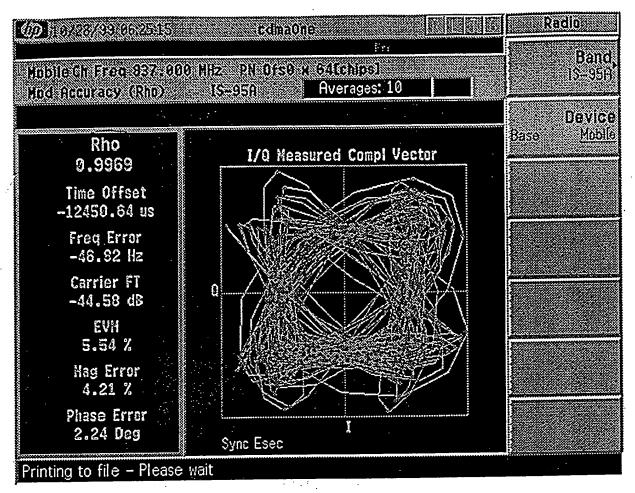
FIG. 49



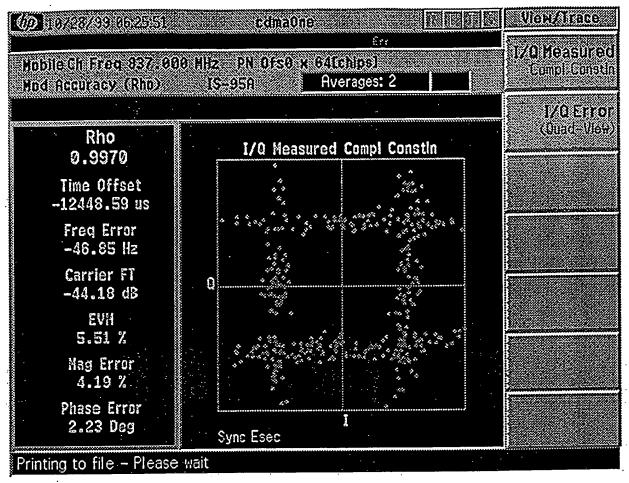
Base Station Constellation for Pilot Channel Test



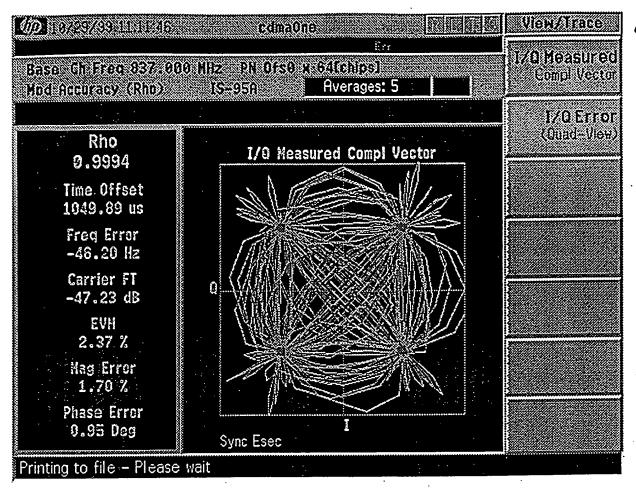
Base Station Sampled Constellation



Mobile Station Constellation for Access Channel Test

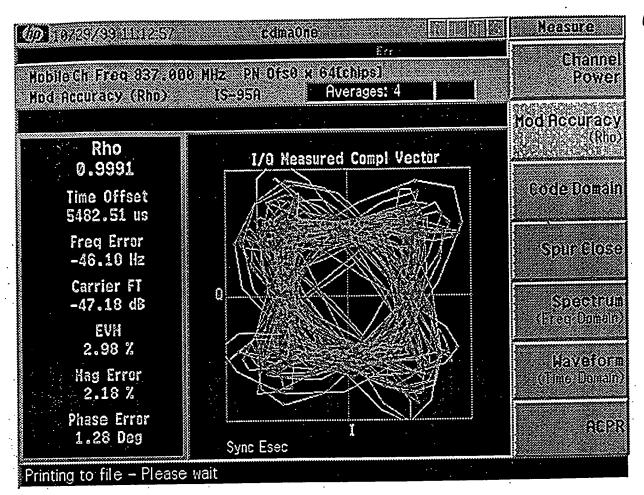


Mobile Station Sampled Constellation



Base Station Constellation using only H/P Test Equipment

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Mobile Constellation using only H/P Test Equipment

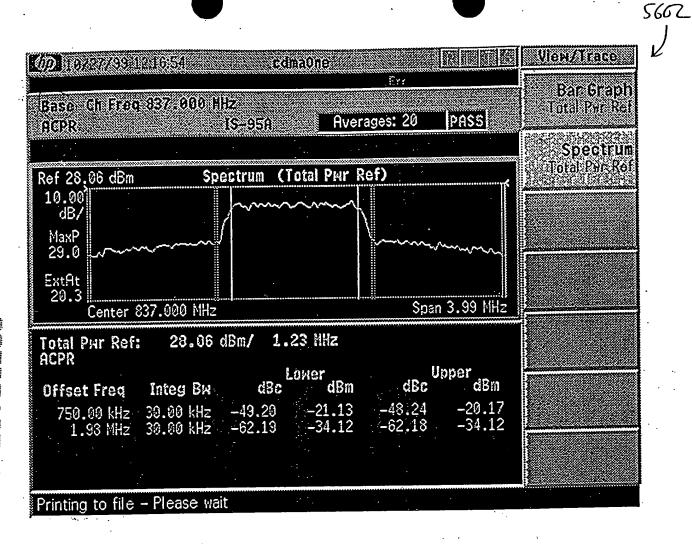
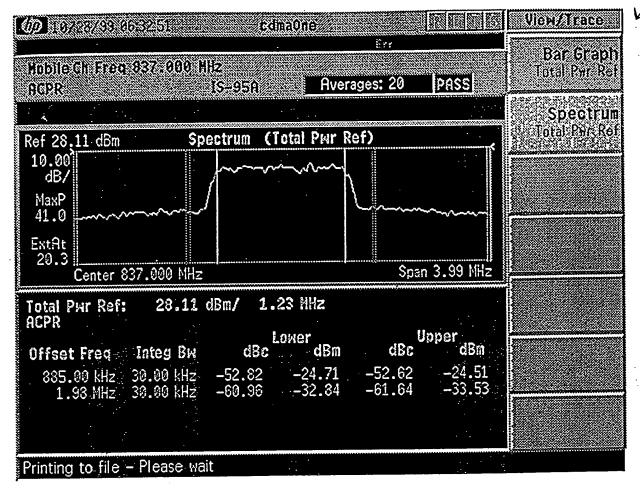


FIG. 56

X2.7

(P) 10/27/49 12:16/29	Measure
Base Ch Freq 837 000 MHz REPR IS-958 Averages: 12 PASS	Channel Power
	Mod Accuracy
Ref 28,08 dBm Bar Graph (Total Pwr Ref)	(Rho)
dB/	Code Domain
MaxP	
ExtAt	Spiir Elose
Center 837.000 MHz	Spectrum
Total Pwr Ref: 28.08 dBm/ 1.23 NHz ACPR	(Erec Domain)
Lower Upper Offset Freq Integ Bw d8c d8m d6c d8m	Waveform
750.00 kHz 30.00 kHz -49.23 -21.15 -48.20 -20.12 1.93 MHz 30.00 kHz -62.15 -34.07 -62.14 -34.06	Cime Domain
	ACPR
Printing to file - Please wait	

Base Station Spectral Response with Mask



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FIG. 58

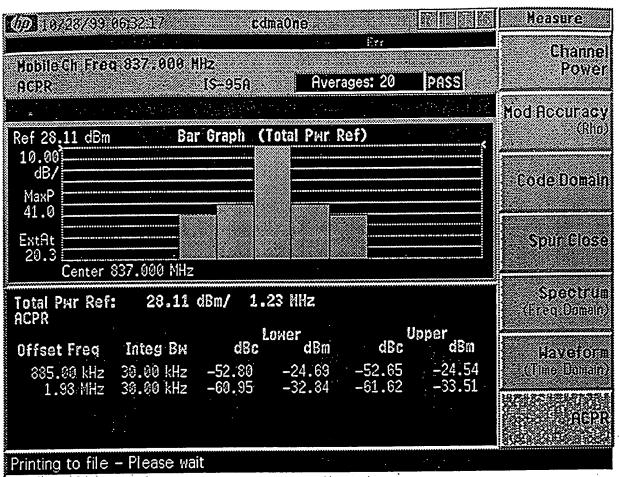
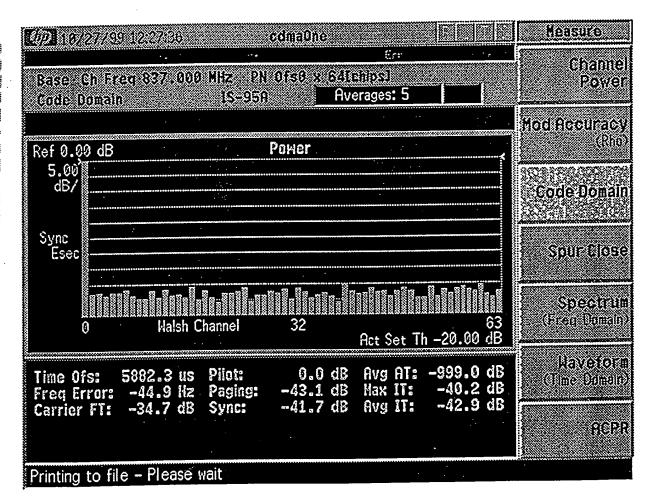


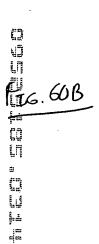
Figure 3.2-2 Mobile Station Spectral Response with Mask

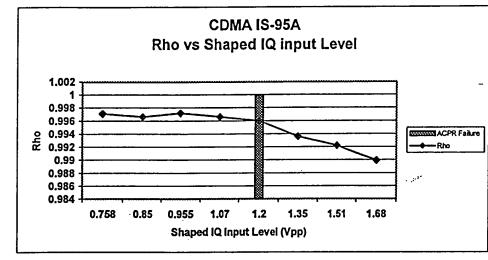


CDMA Crosstalk

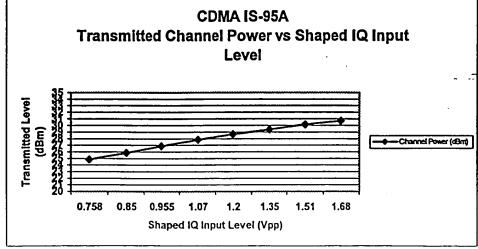
FIG 60A

Sequence for IQ Input Level Variance









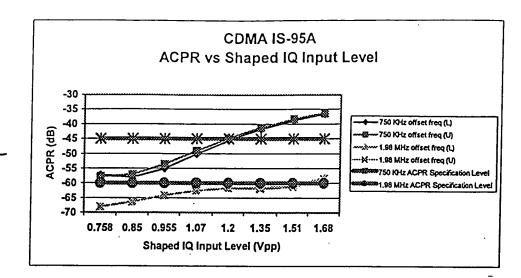


FIG. GOD

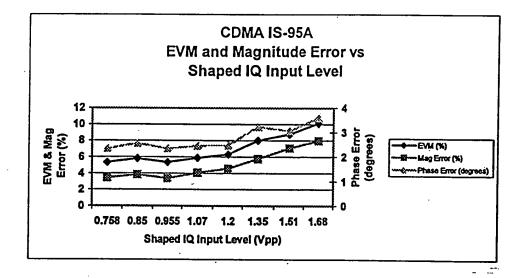
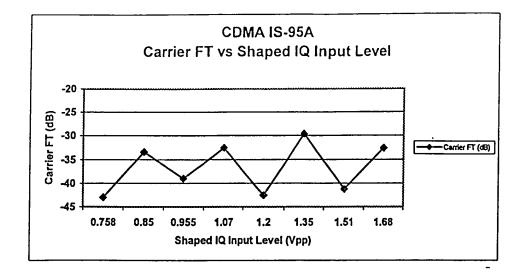


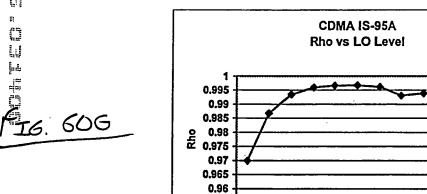
FIG. GOF

they then they then they be

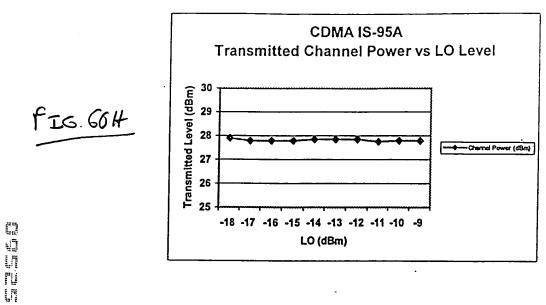


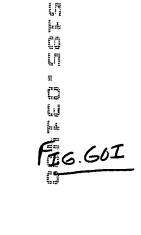
-18 -17 -16 -15 -14 -13 -12 -11 -10 -9 LO (dBm)

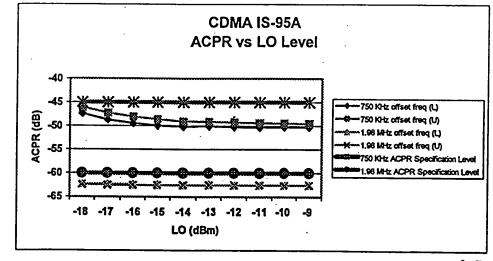
Sequence for LO Variance

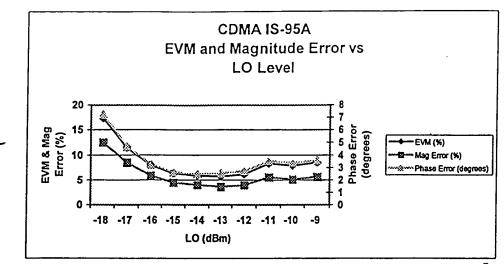


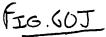
0.955

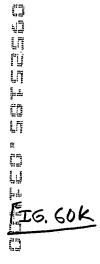


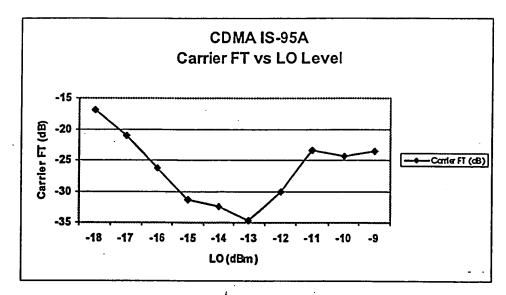












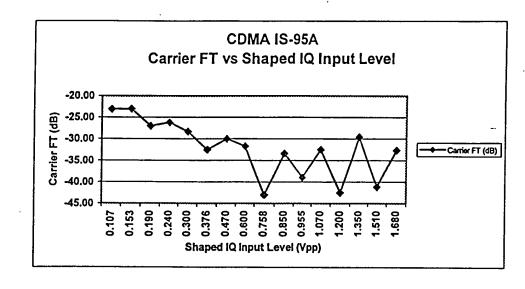
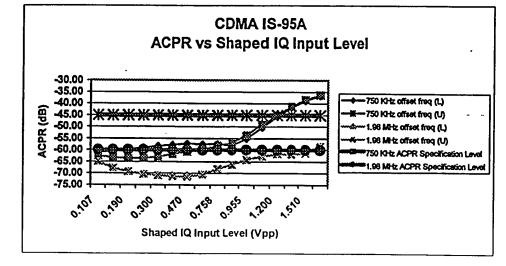
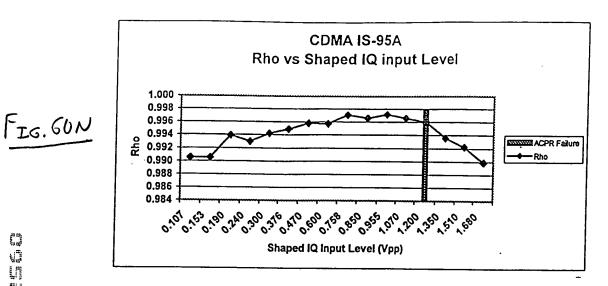
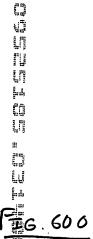
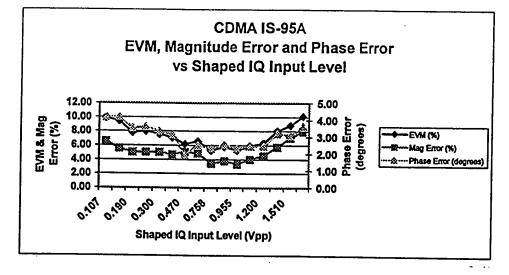


FIG. 60M

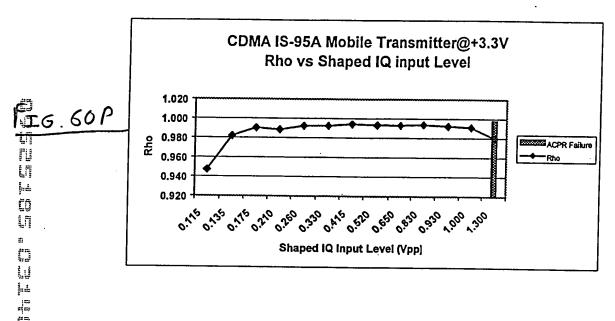


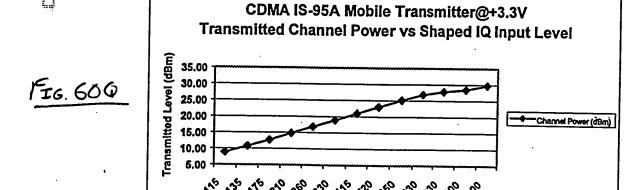




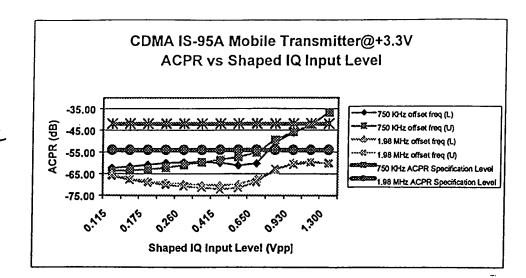


Sequence for IQ Input Level Variance

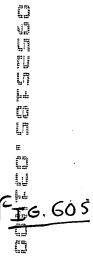


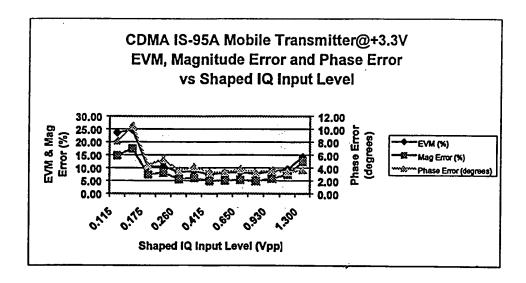


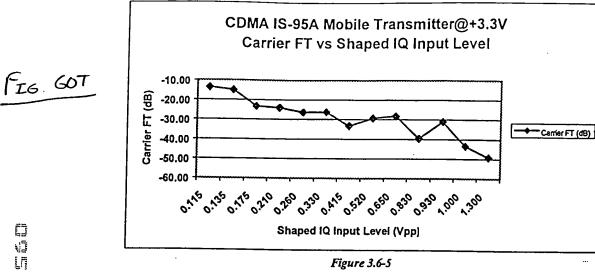
Shaped IQ Input Level (Vpp)











Sequence for LO Variance

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ETG 60U

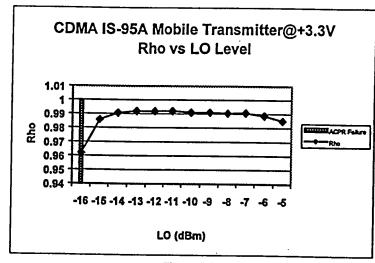
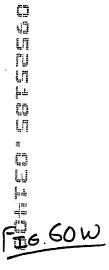
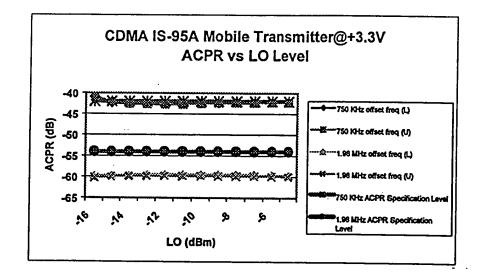


Figure 3.6-6

FIG. GOV





CDMA IS-95A Mobile Transmitter@+3.3V

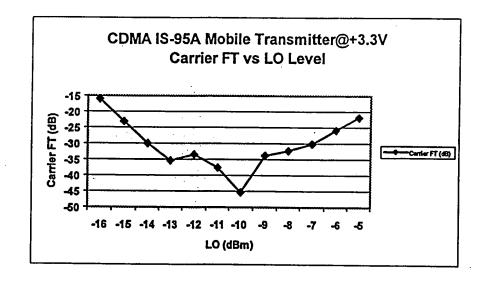
EVM and Magnitude Error vs

LO Level

The state of the sta

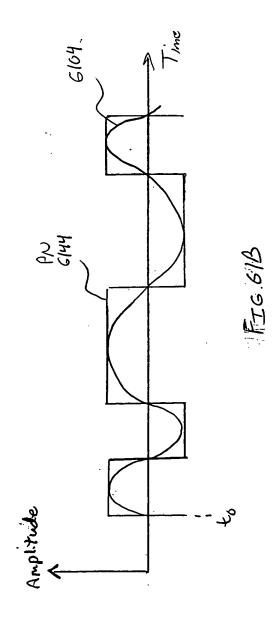






Quantity	Description	Voltage	Total Current	Power
2	D2D Cores	3.3	4mA	13.2mW
2	Baseband Interface Circuits with/BW Limit	3.3	6mA	21.8mW
1	Clock Circuit	3.3	5mA	20.0mW
	·		Sub Total	54.0mW

FIG. 602

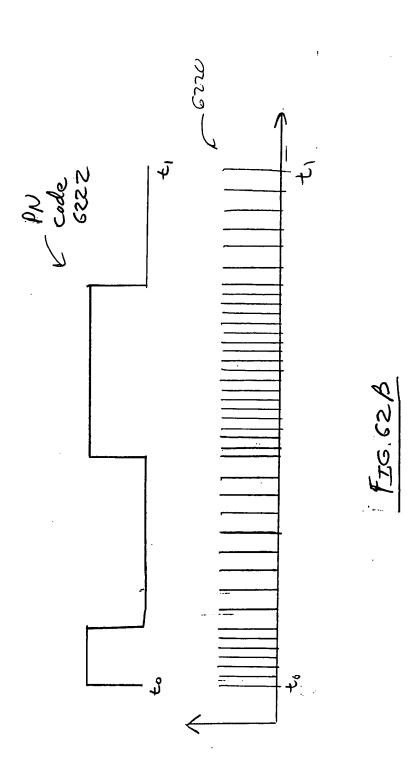


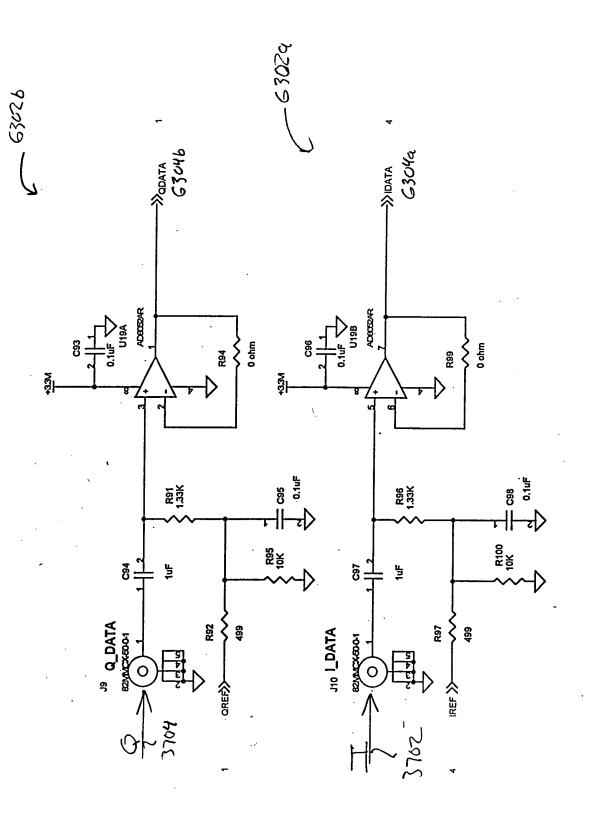
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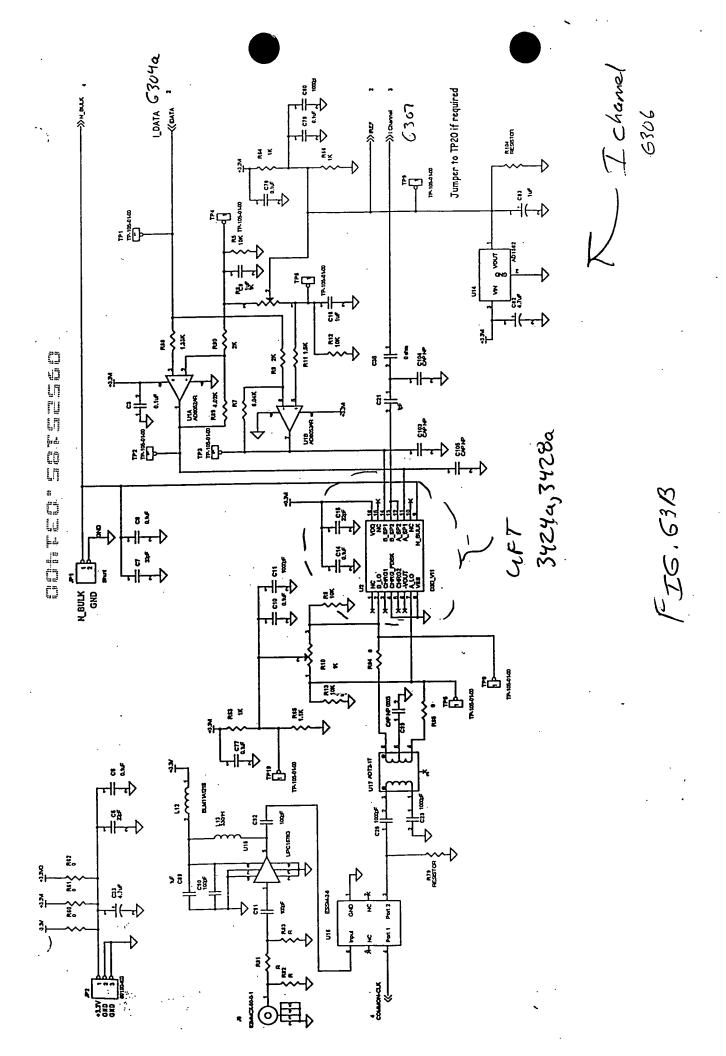
ASSOCIATION WITH STANKING COMMENTAL ASSOCIATION COMMENTAL ASSO

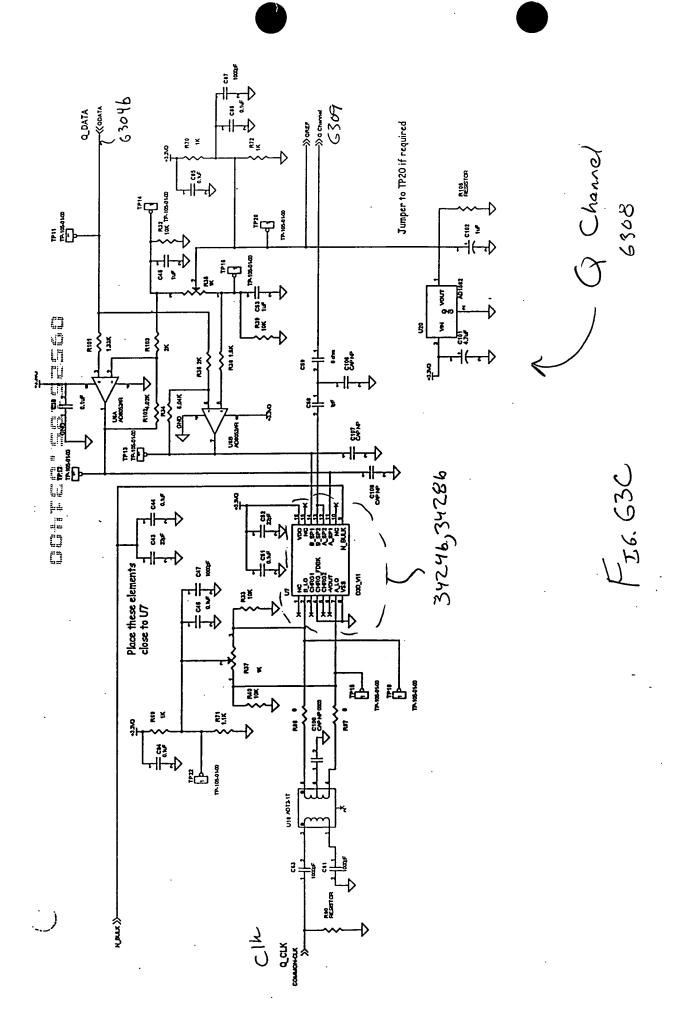


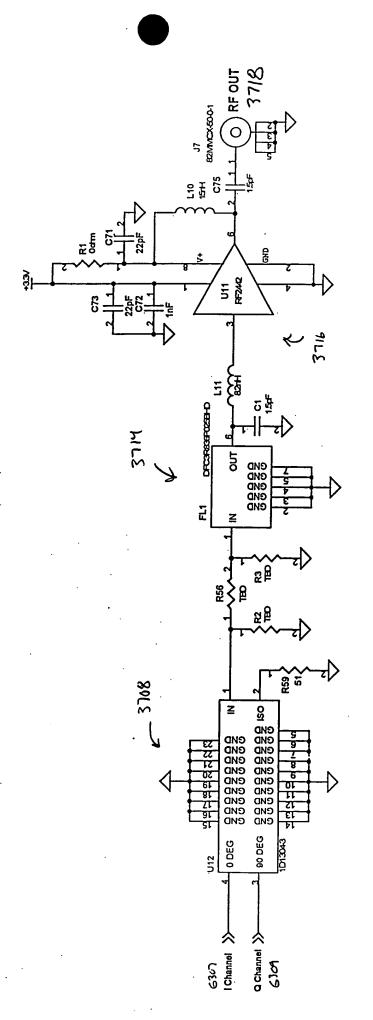




PIG. 63A







IC 630

Cumbines 6310

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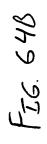
6450n

6450c

90549

6450a

८५७८



Frequency

n/75

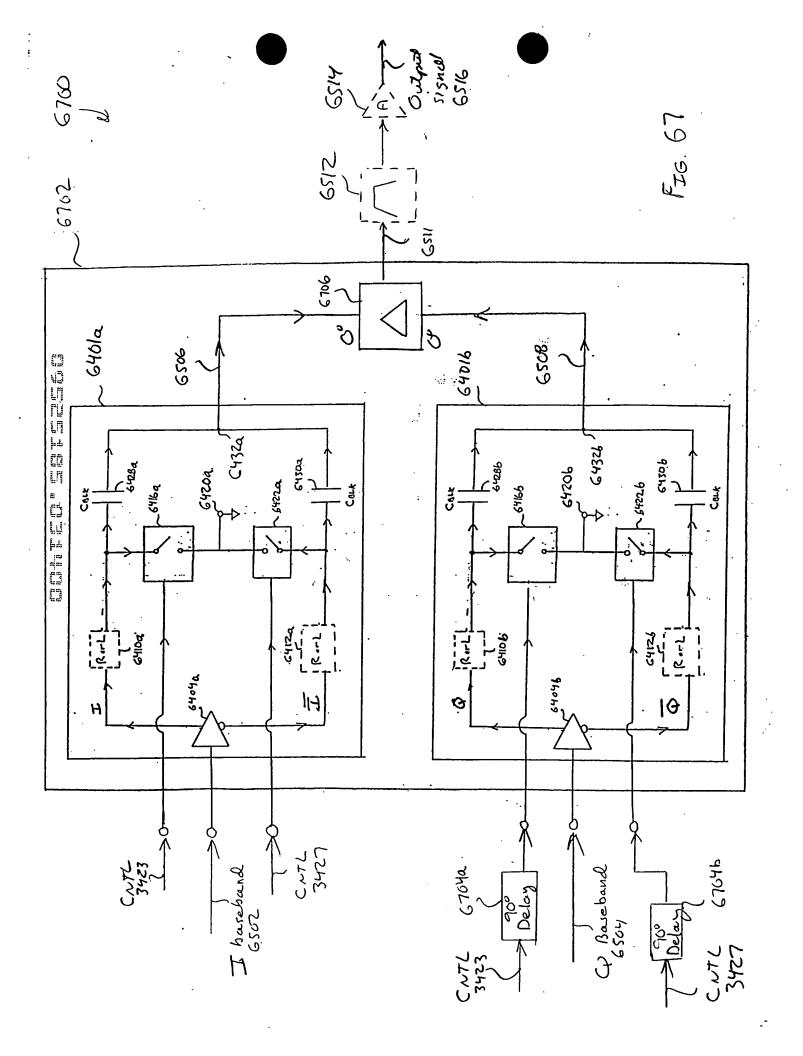
3/75

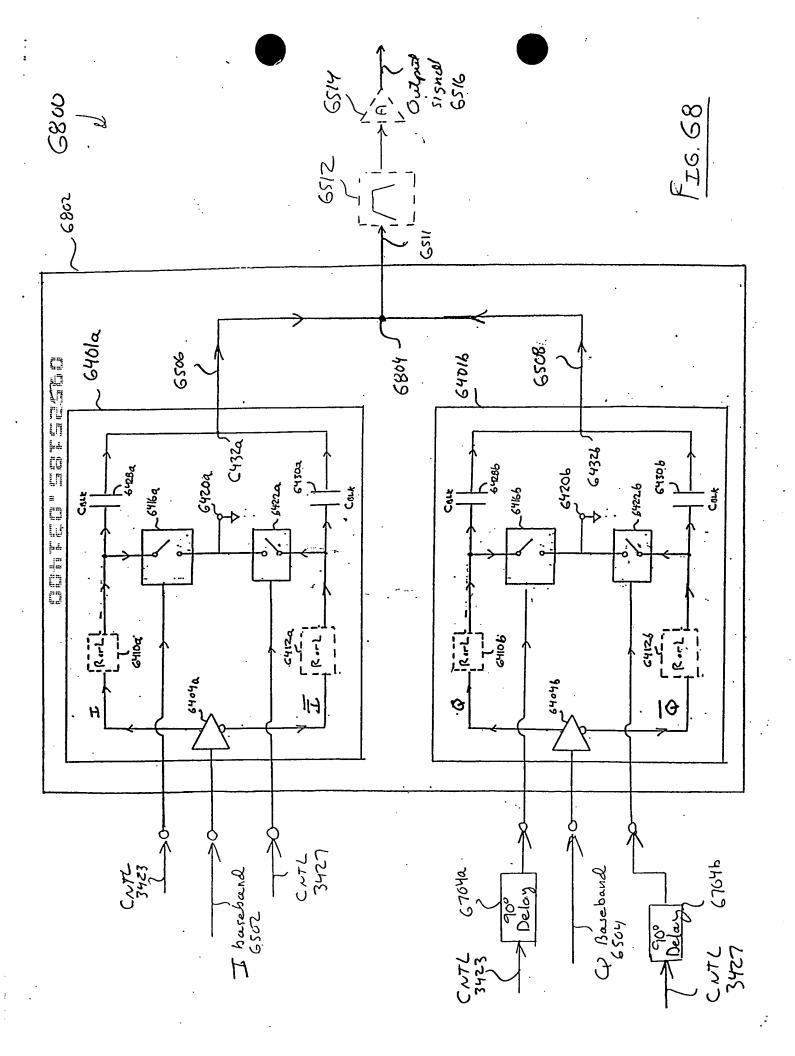
2/15

1/ 75









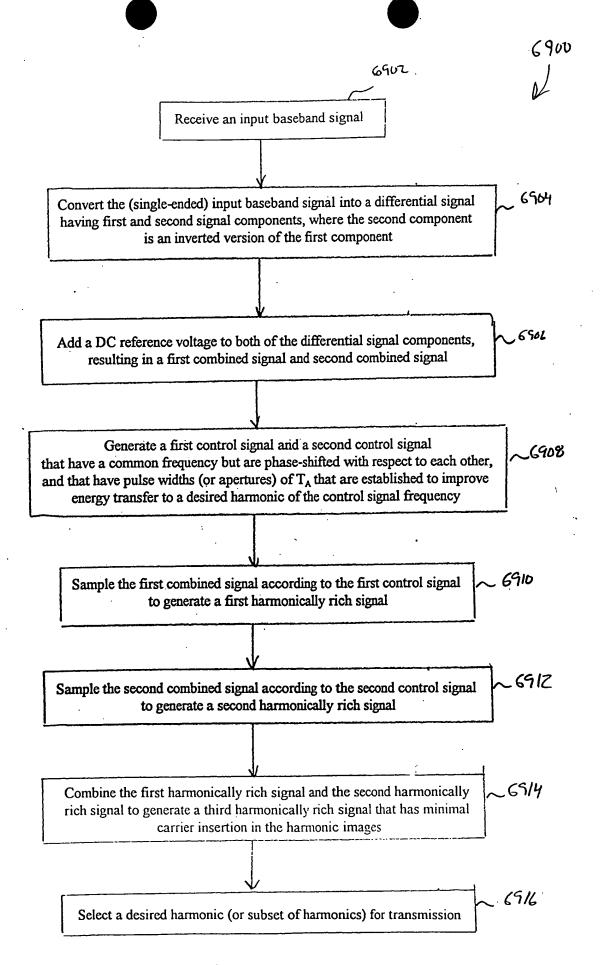


FIG. 69

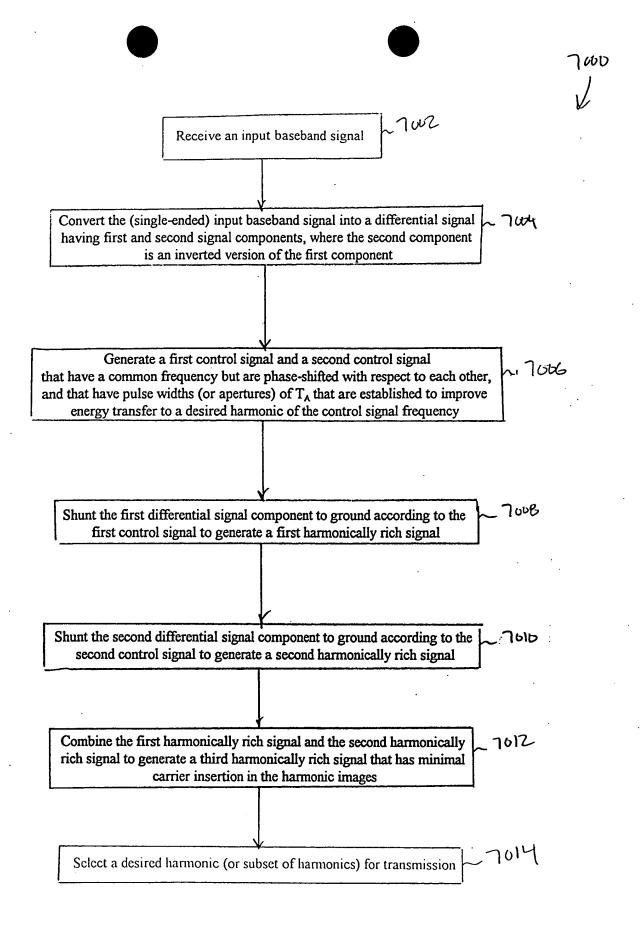


FIG. 70

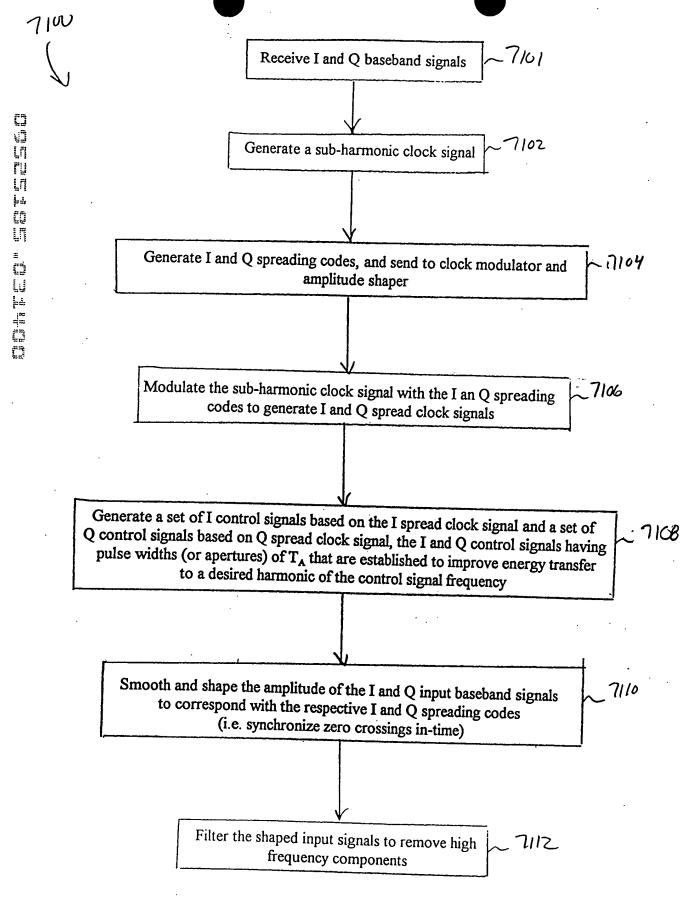
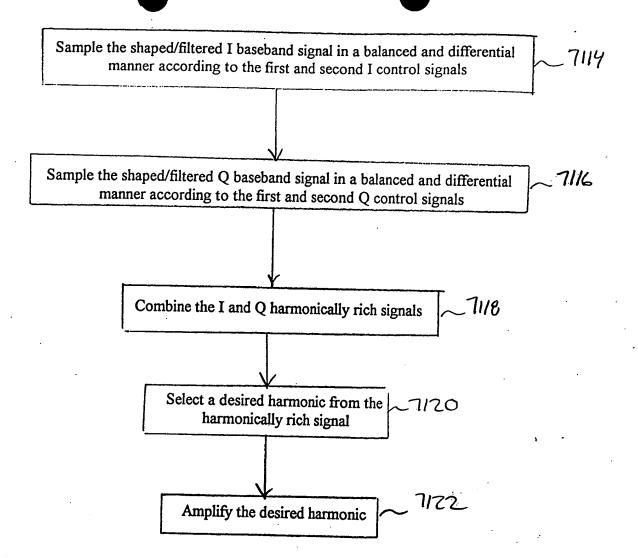


FIG. 7/A



FI6.71B

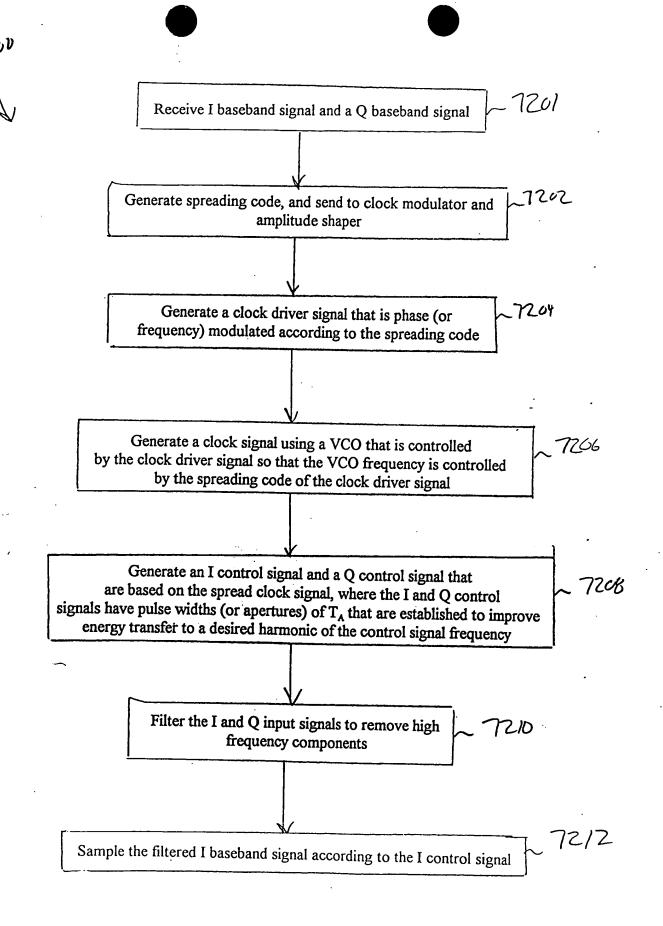
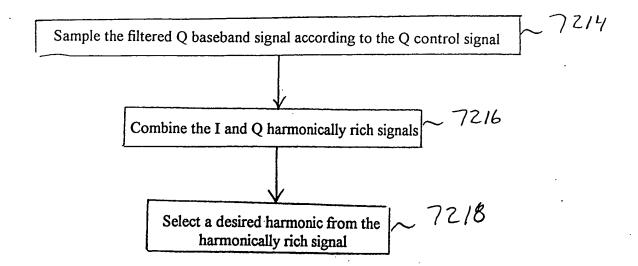
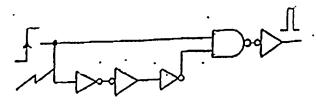


FIG. 72A

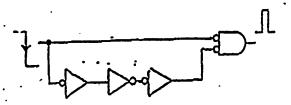






A. rising edge pulse generator

FIG. 73D



B. falling-edge pulse generator

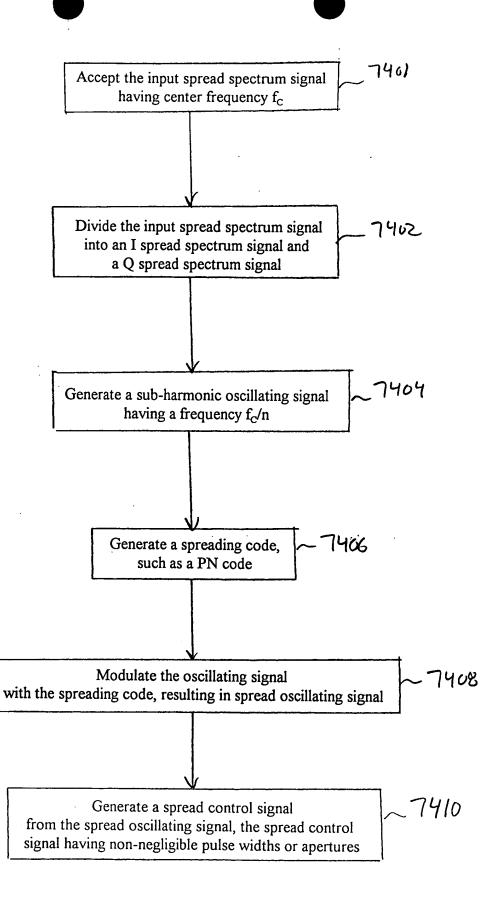
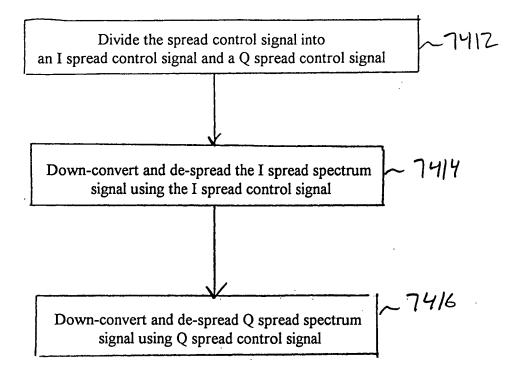
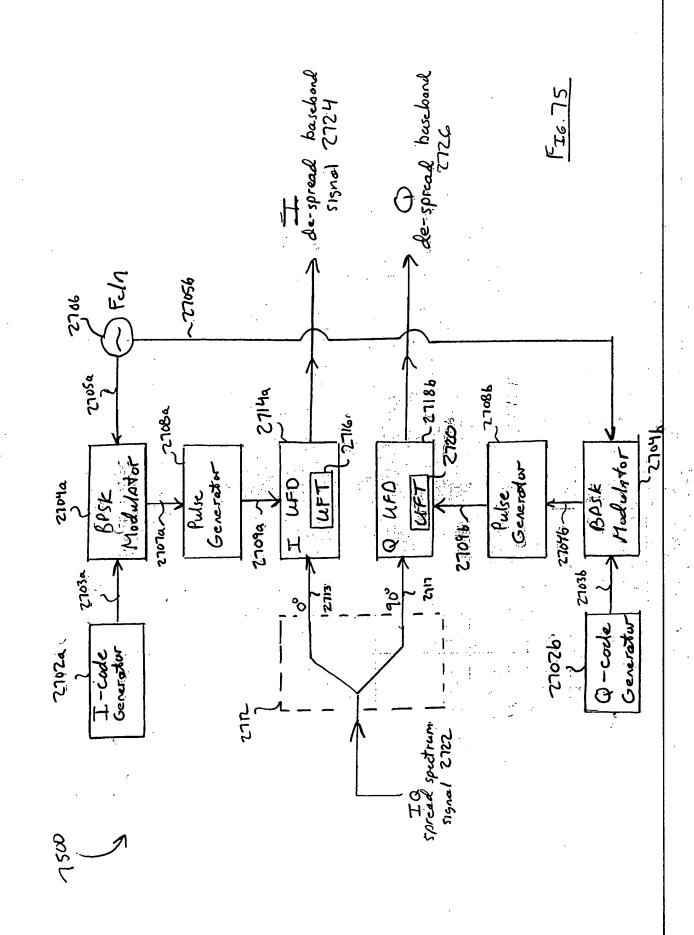
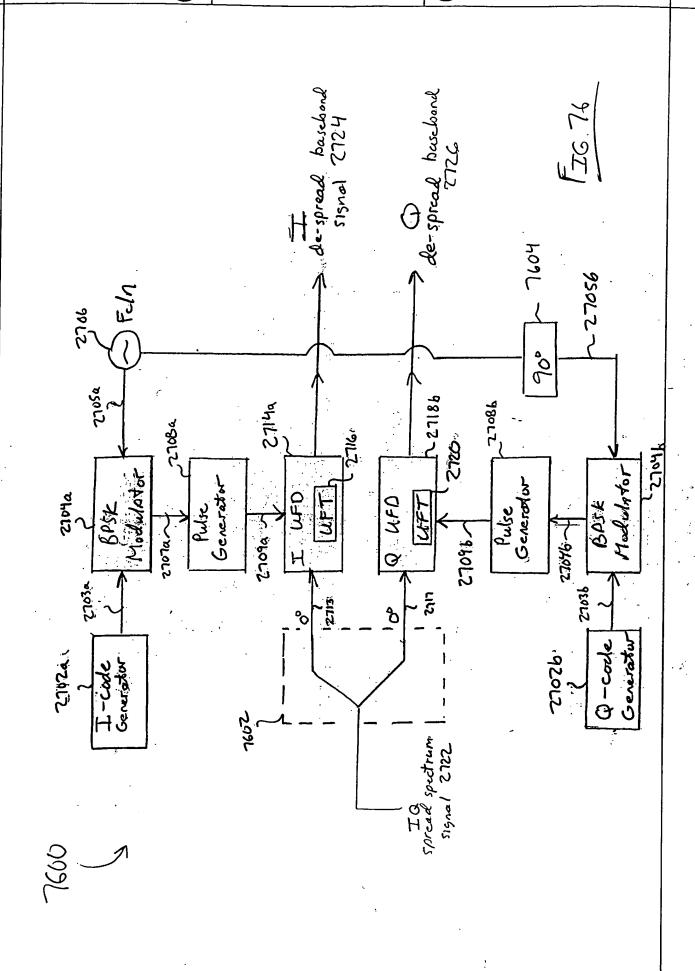


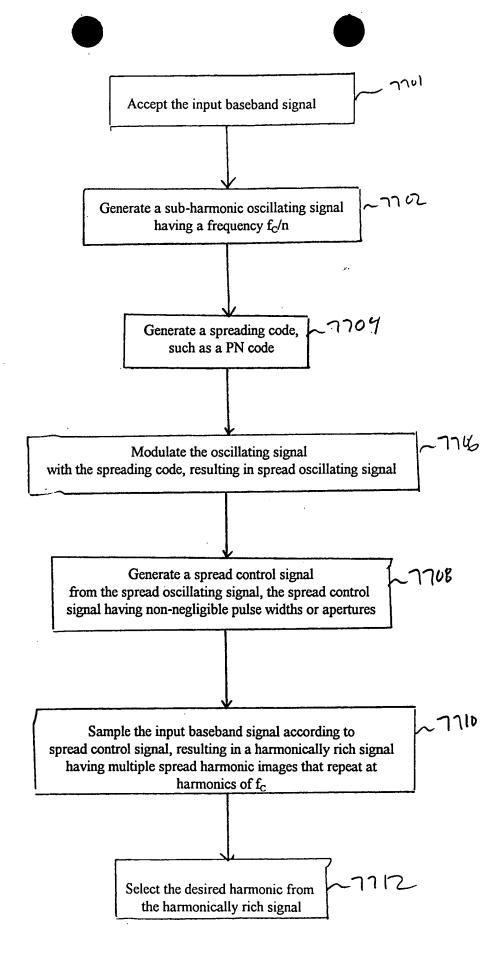
FIG. 744



FI6.74B







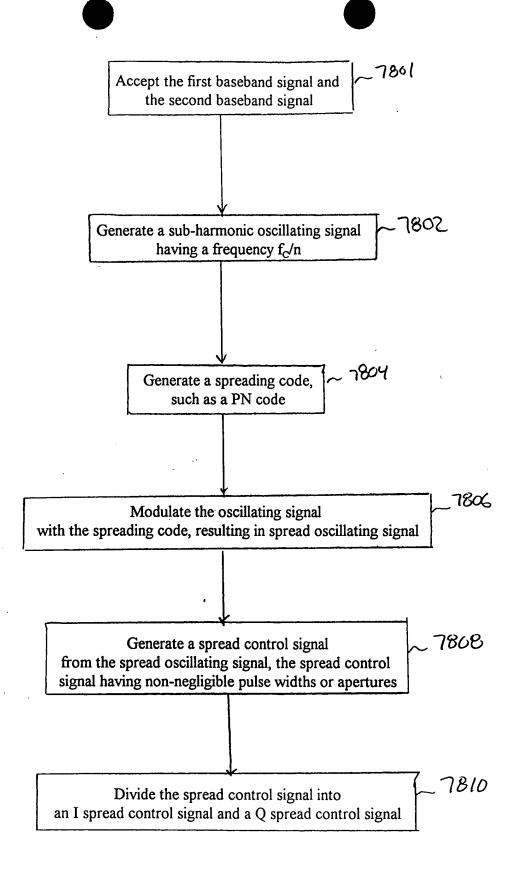


FIG. 78A

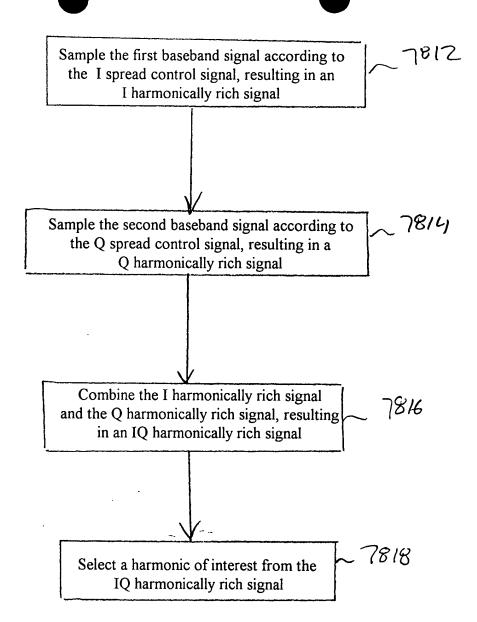
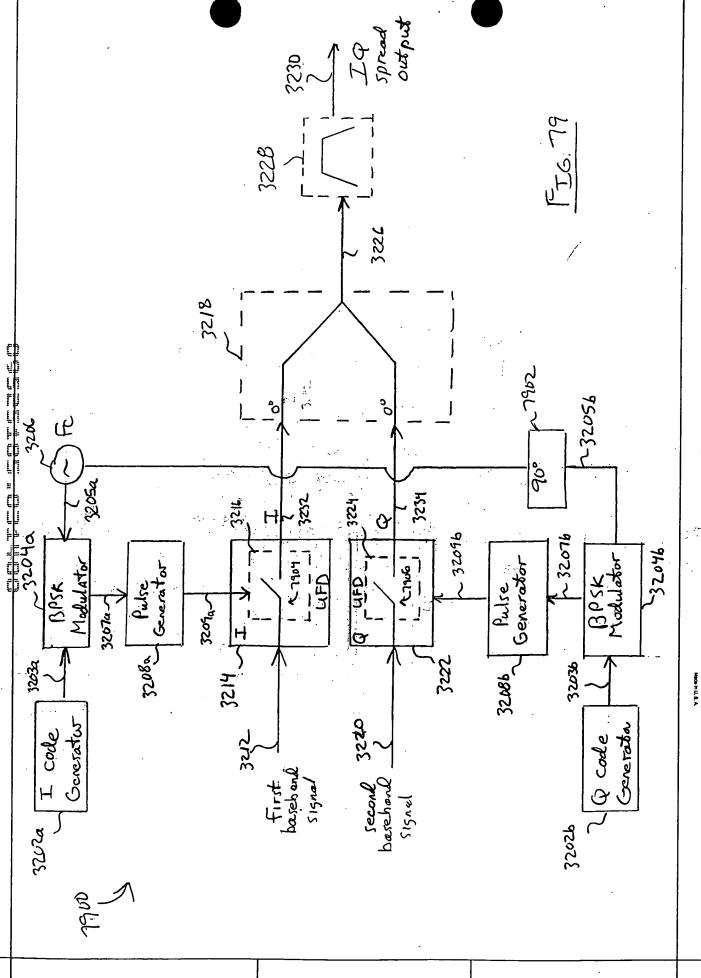
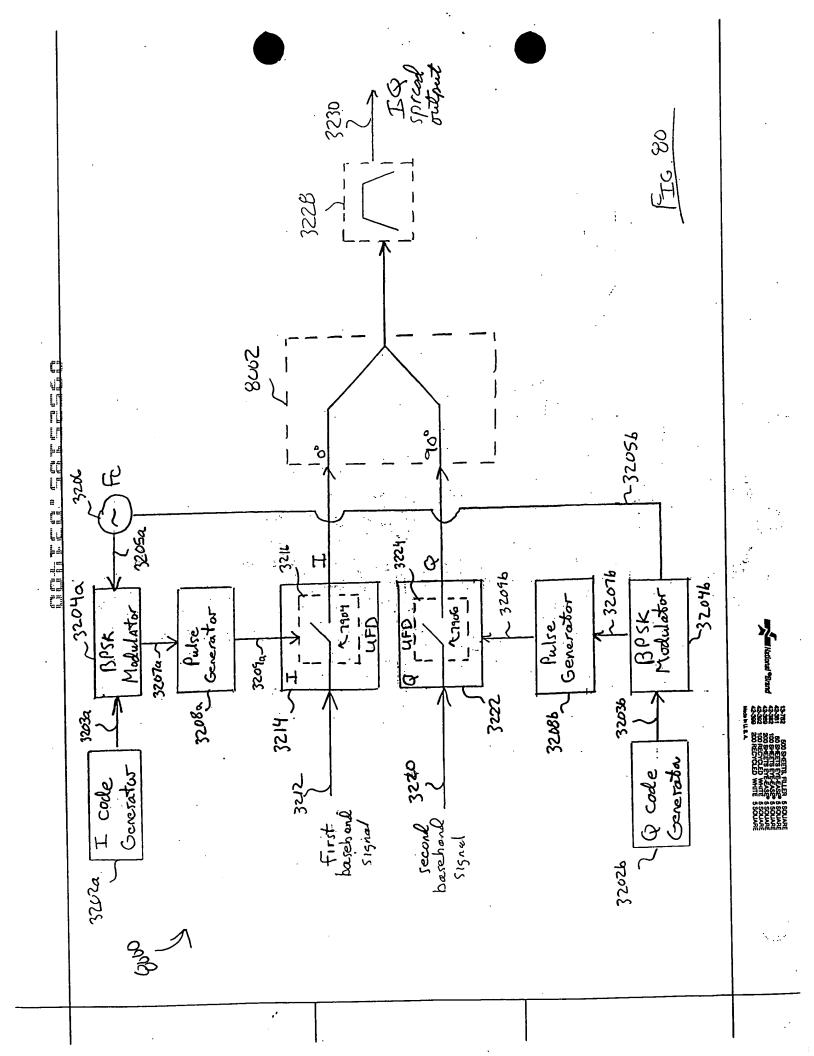


FIG. 78B

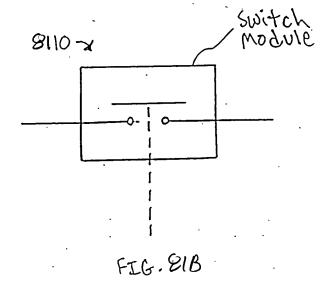
;



13-782 500 SHEETIS, FILLER 5 SOUMA 42-881 500 SHEETIS PIE-5-05-28 SOUMA 42-882 100 SHEETIS PIE-5-05-28 SOUMA 42-880 200 SH



8102 - Switch module 8105 8107 - Blos FIG. 81A



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25.00 (25

Suitch Module 8113

FIG. 81C

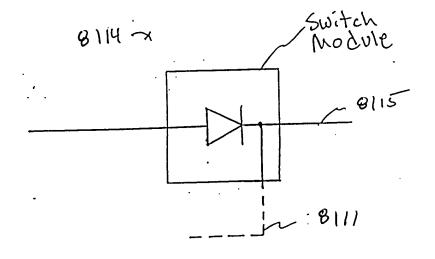
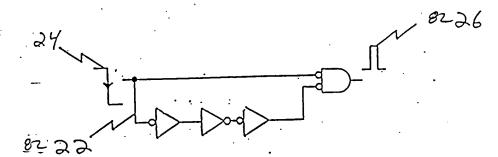


FIG. 81D

A. rising edge pulse generator





B. falling-edge pulse generator

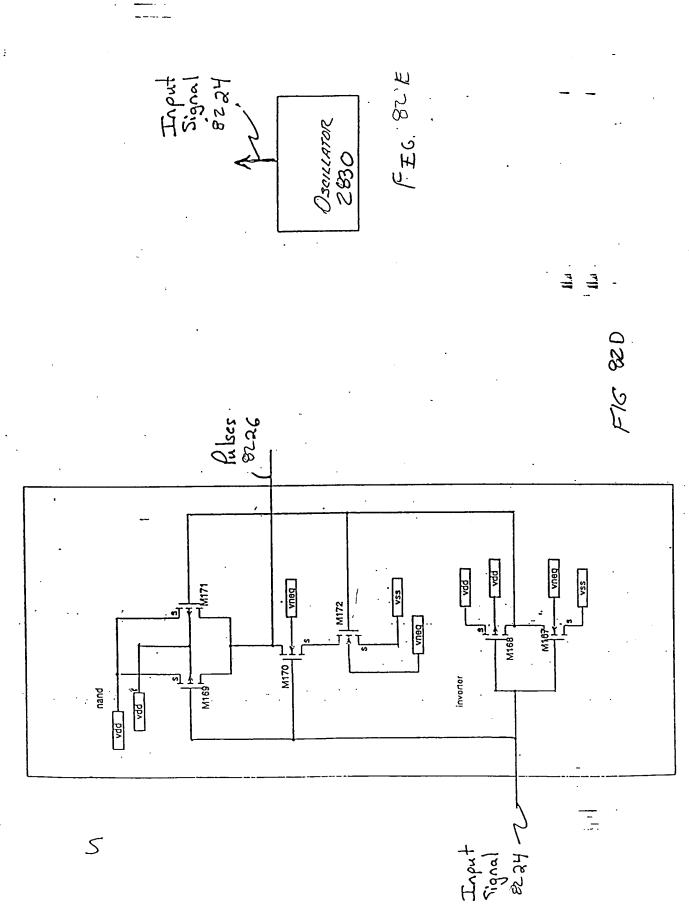
FIG. 82B

Twenter 8238

Input Signal

-substantal equivalence in logic only is necessary.
-u7 shown for polarity consistency with ckt oxamples described elsewhore.

FIC 836



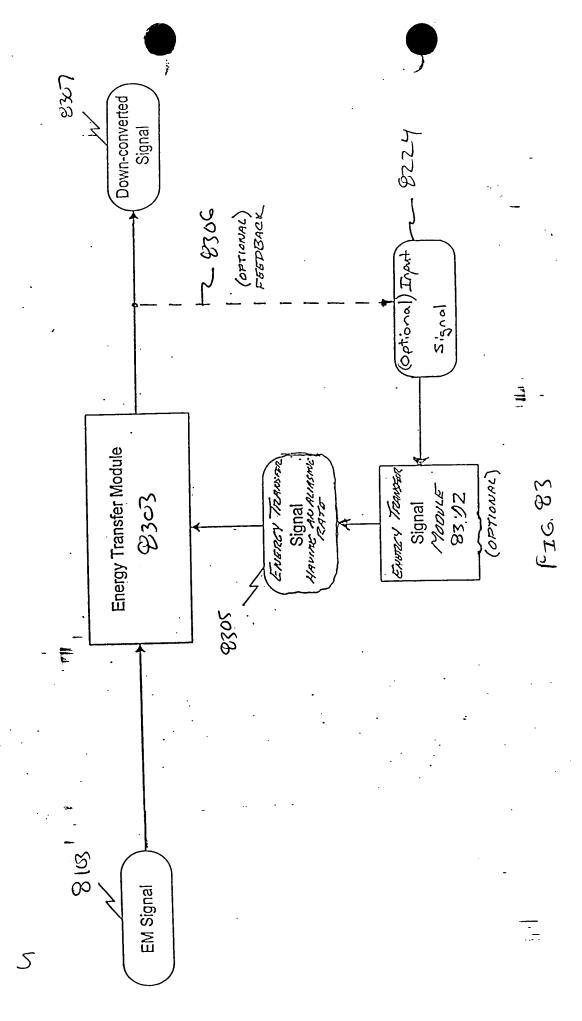


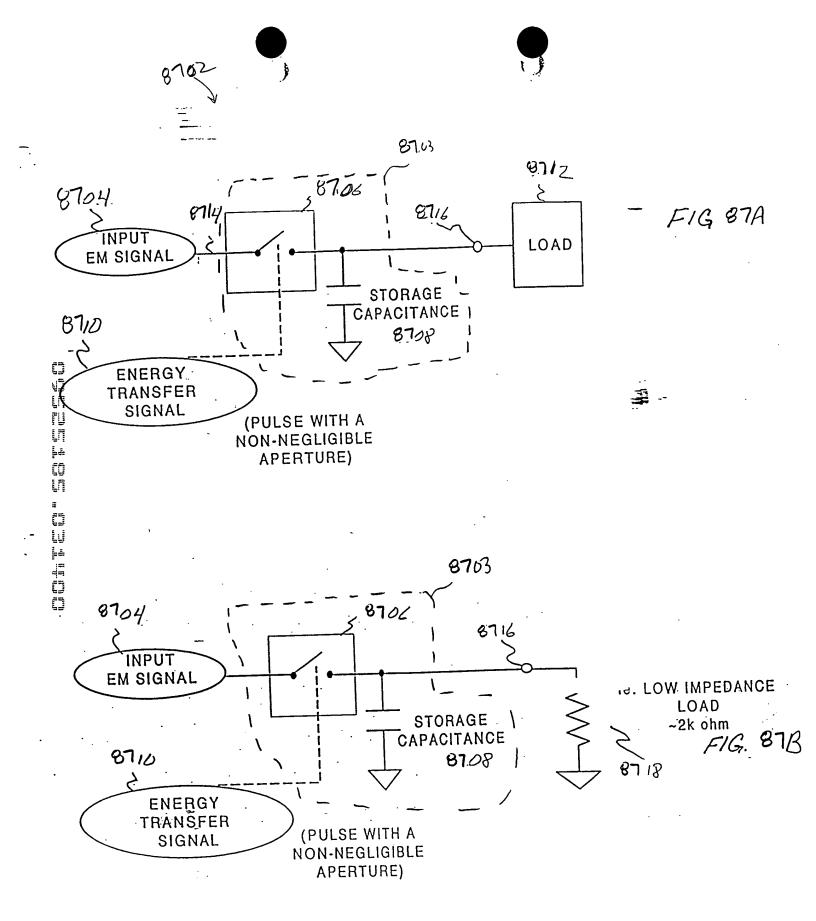
Fig 84 - Impedance Matched Aliasing Module

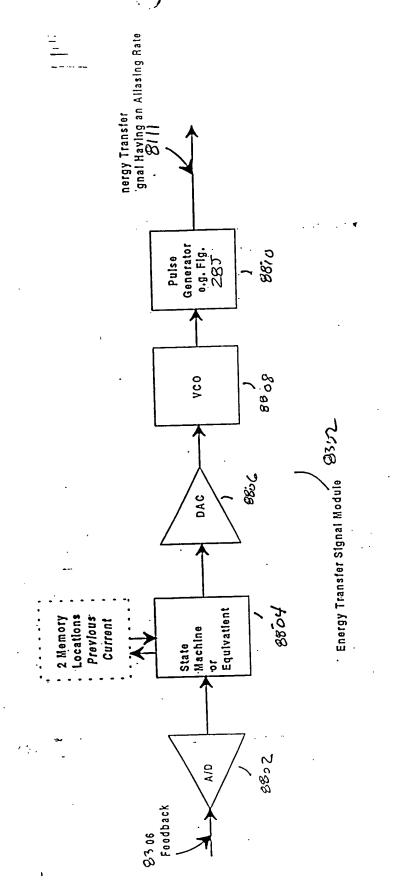
· [7]];

FIG. 85A

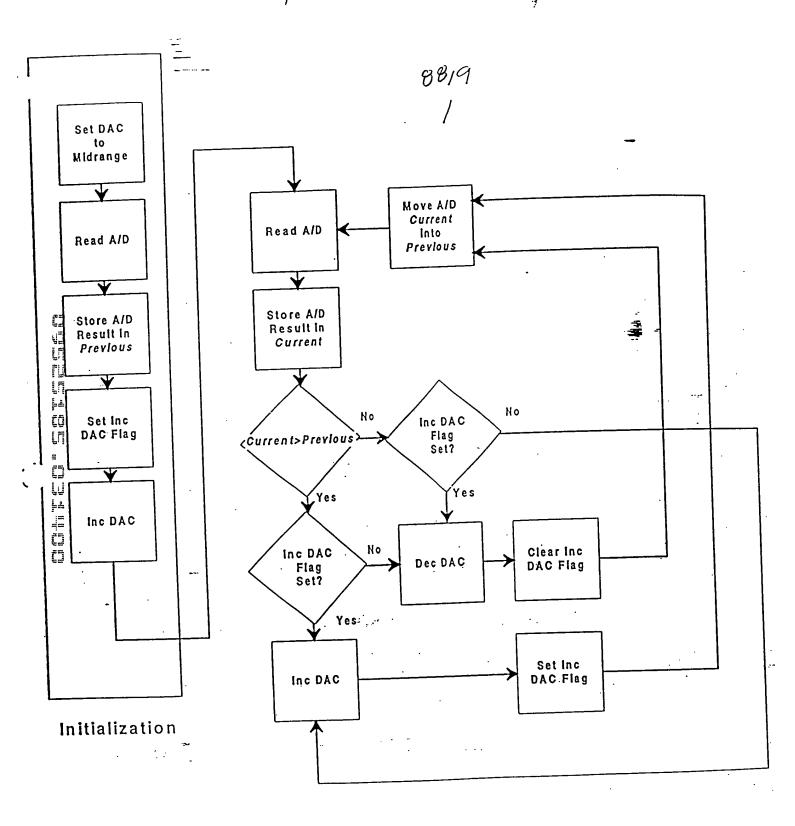
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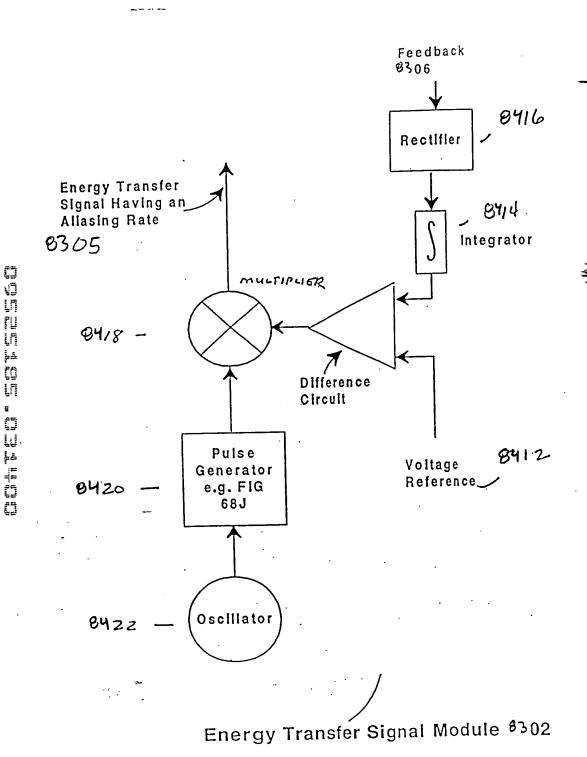




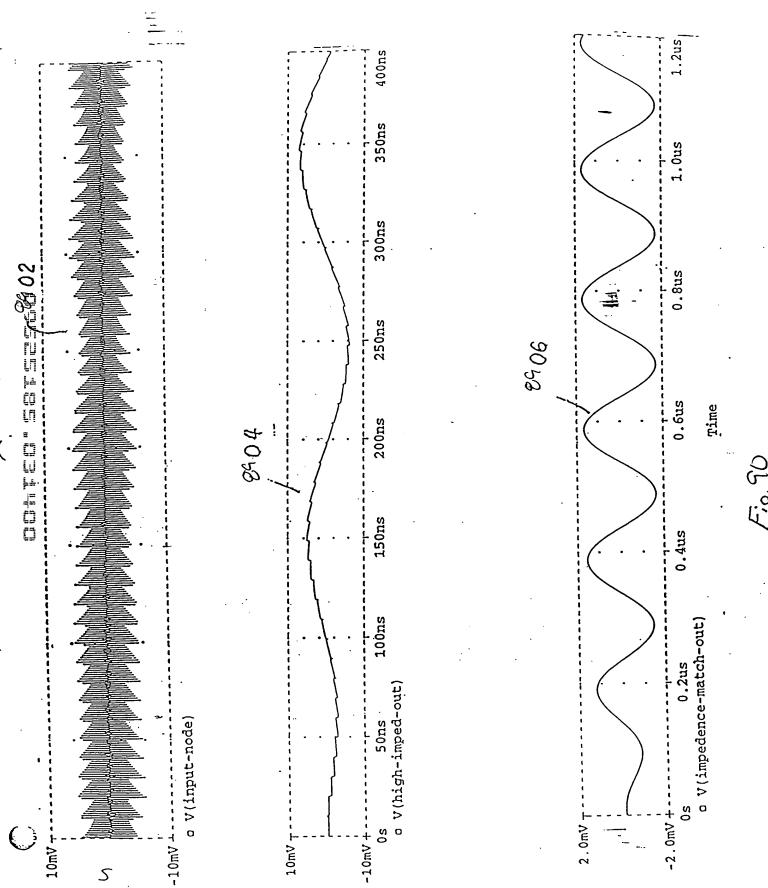
F1G. 88A

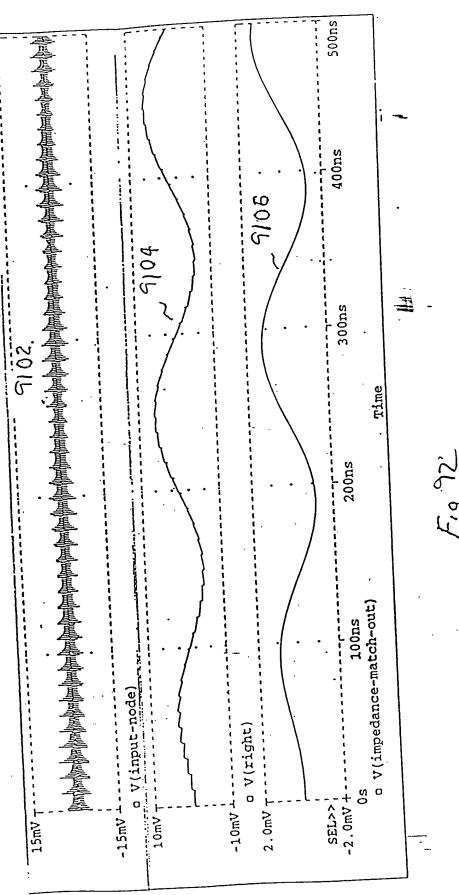


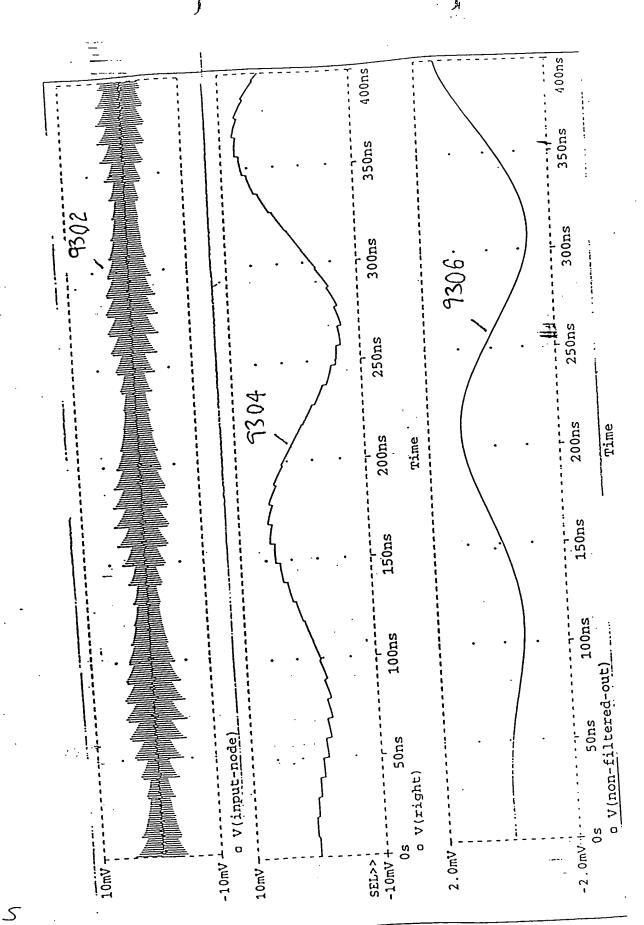
State Machine Flowchart



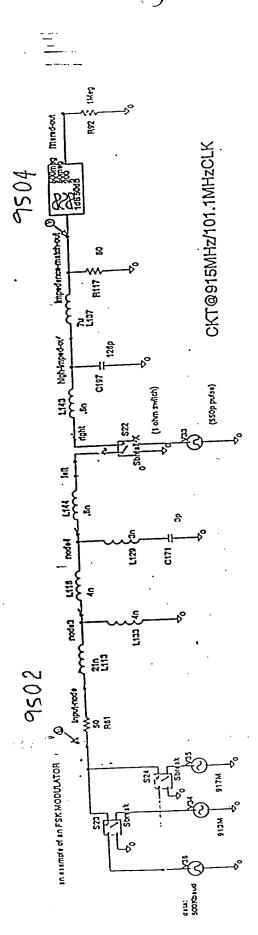
F1G.88C



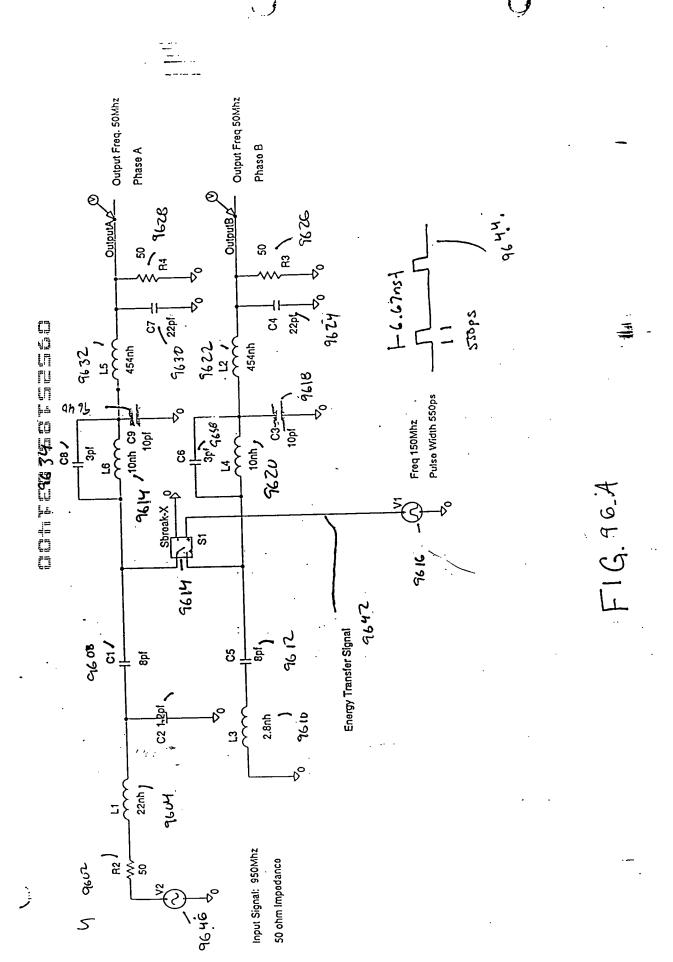




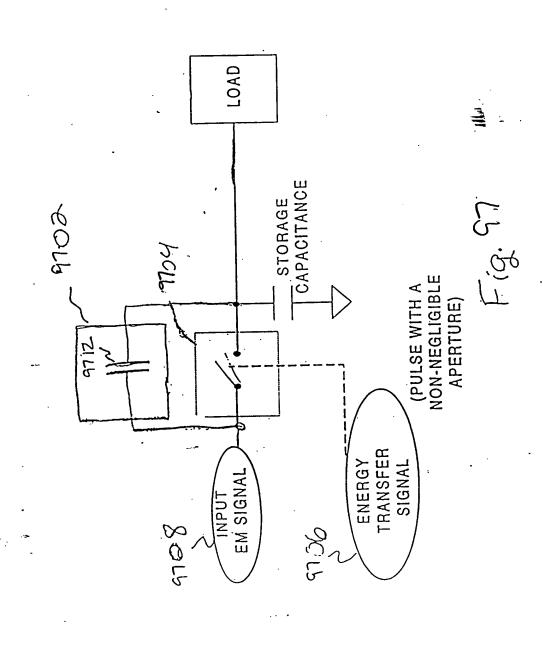
F19.94



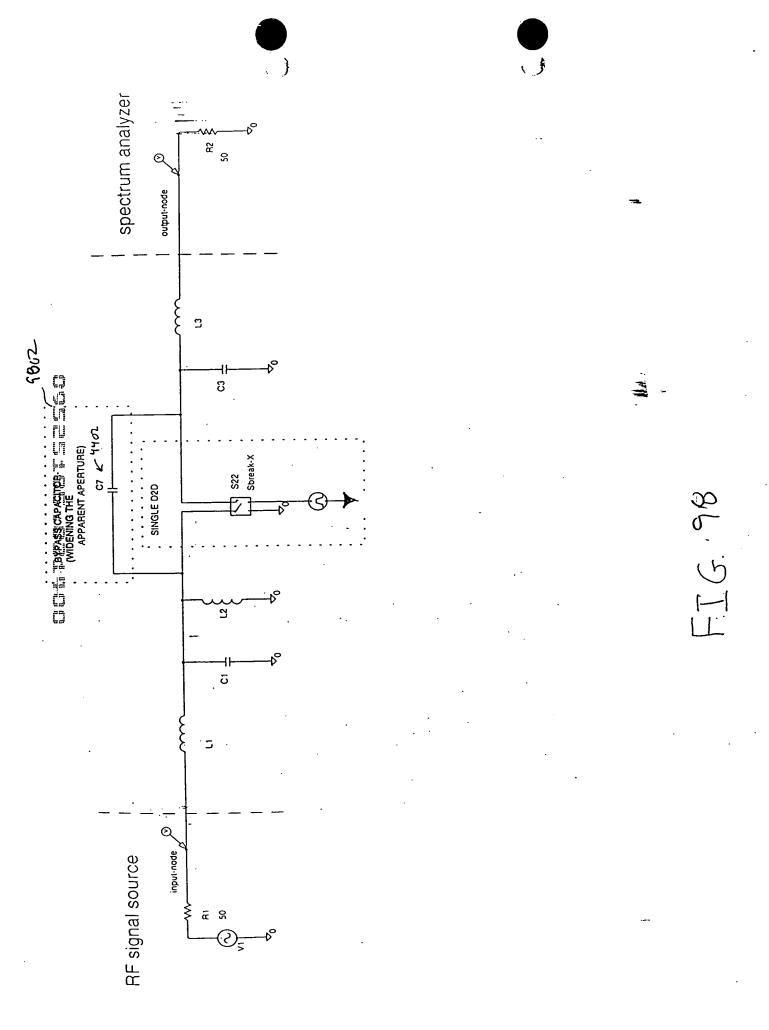
F.9,75



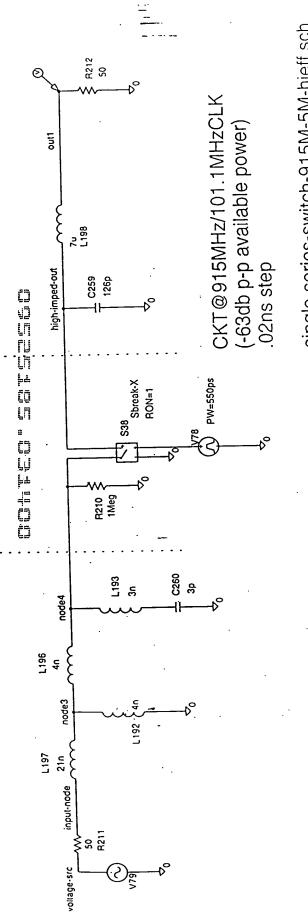
patl.dat	F15.96.3		200ns 250ns 300ns 350ns 400ns
Date/Time run: 10/14/98 15:37:54 (A)	200mV	200mV - CoutputA)	V V V V V V V V V V V V V V V V V V V



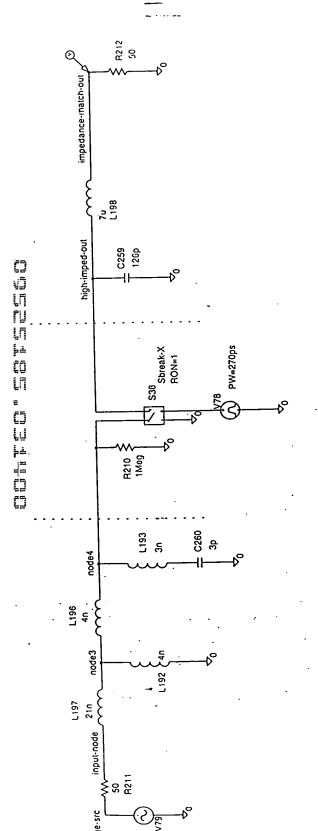
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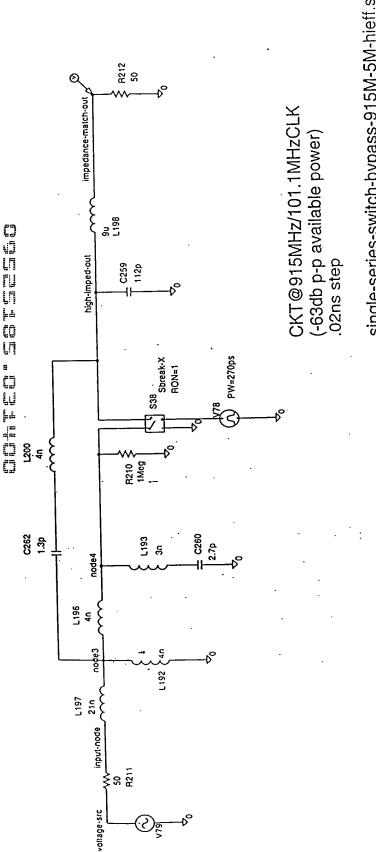


single-series-switch-915M-5M-hieff.sch



CKT @ 915MHz/101.1MHzCLK (-63db p-p available power) .02ns step

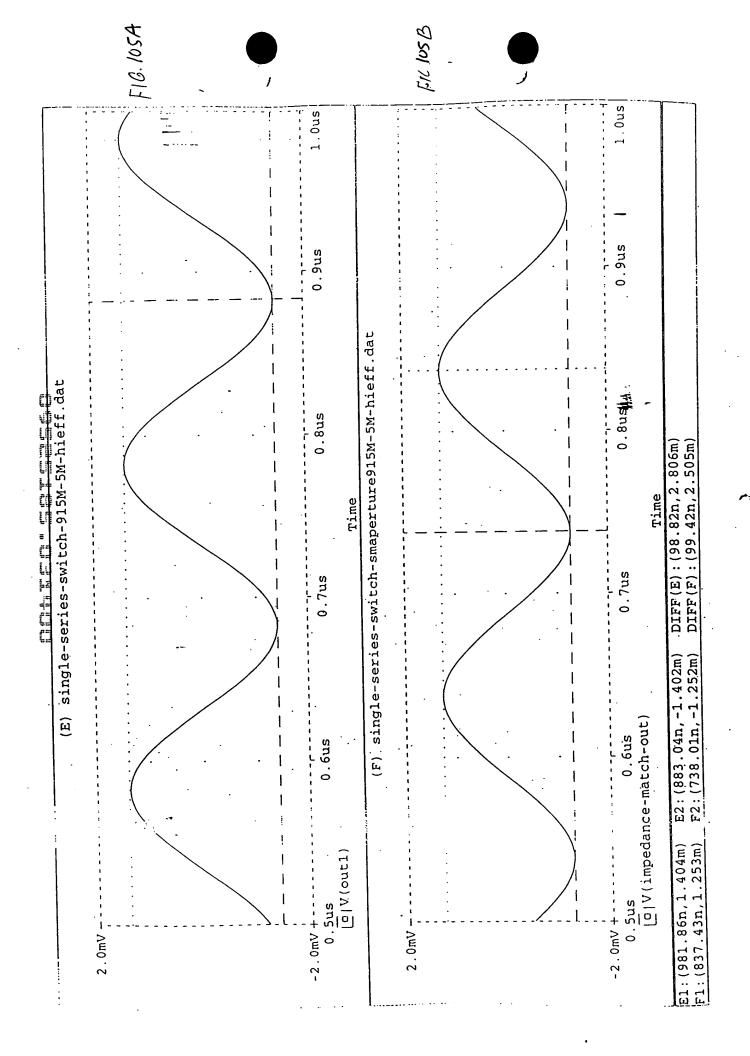
single-series-switch-smaperture915M-5M-hieff.sch



single-series-switch-bypass-915M-5M-hieff.sch

single-series-switch-wobypass-915M-5M-hieff.sch

TC. 104



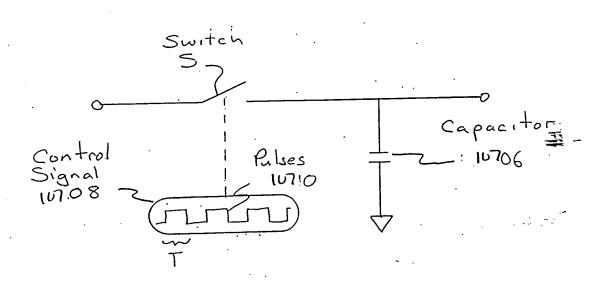


FIG. 107.A

$$q = C \cdot V$$

EQ. 10

$$V = A \cdot \sin(t)$$

EQ. 11

$$q(t)=C\cdot A\cdot \sin(t)$$

EQ . 12

$$\Delta q(t) = C \cdot A \cdot \sin(t) - C \cdot A \cdot \sin(t - T)$$

EQ.13

$$\Delta q(t) = C \cdot A \cdot (\sin(t) - \sin(t - T))$$

EQ. 14

$$\sin(\alpha) - \sin(\beta) = 2 \cdot \sin\left(\frac{\alpha - \beta}{2}\right) \cdot \cos\left(\frac{\alpha + \beta}{2}\right)$$

$$\Delta q(t) = 2 \cdot C \cdot A \cdot \sin \left[\frac{t - (t - T)}{2} \right] \cdot \cos \left[\frac{t + (t - T)}{2} \right]$$

EQ.16

$$\Delta q(t) = 2 \cdot C \cdot A \cdot \sin\left(\frac{1}{2} \cdot T\right) \cdot \cos\left(t - \frac{1}{2} \cdot T\right)$$

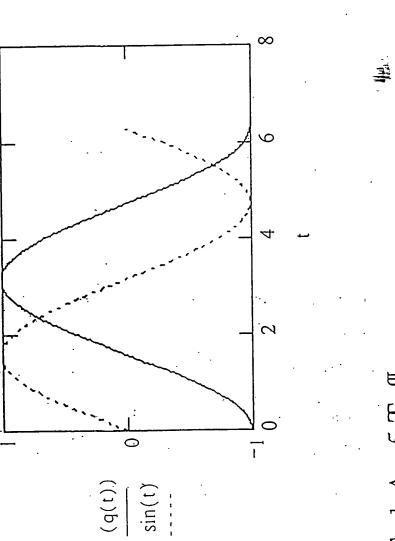
$$= \mathbb{Q} \cdot \Pi$$

$$q(t) = \int_{-\infty}^{\infty} C \cdot A \cdot (\sin(t) - \sin(t - T)) dt \qquad \text{Eq. 18}$$

$$q(t) = -\cos(t) \cdot C \cdot A + \cos(t - T) \cdot C \cdot A$$
 FQ. 19

$$q(t)=C\cdot A\cdot (\cos(t-T)-\cos(t))$$

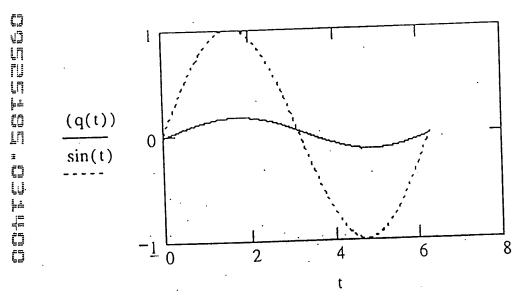
Graph 1



C=1;A=.5,T=¶

-IG. 101C

For Graph 2: C=1, A=.5, $T=\pi/10$:



Graph 2

FIG. 100, D

Power-Charge Relationship

$$J = \frac{9^2}{C}$$

$$P = \frac{q^2}{C \cdot S}$$

FIG. 107, E

Insertion Loss

Insertion loss in dB is expressed by:

or

ILdB=
$$10 \cdot log \left[\frac{\left(\frac{Vin^2}{Rin} \right)}{\left(\frac{Vout^2}{Rout} \right)} \right]$$